CERTIFICATE OF ELECTRONIC TRANSMISSION
I hereby certify that this correspondence is being electronically transmitted to the U.S. Patent and Trademark Office on March 24, 2008.

/Diane Bergin/
Diane Bergin

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	Group Art Unit: **3626**
Michael G. Kahn et al.	Examiner: **Lena Najarian**
Application No.: **09/584,936**	
Confirmation No.: **5001**	**CUSTOMER NO. 22470**
Filed: **31 May 2000**	
Title: **CLINICAL TRIALS MANAGEMENT SYSTEM AND METHOD**	

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SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

I, MICHAEL MISCHKE-REEDS, declare as follows:

1. I am one of the inventors named in the above-identified patent application. With this Declaration, I provide documentary evidence that the invention of the above-identified patent application was conceived prior to September 10, 1999, and that we worked diligently toward a reduction to practice from a date prior to September 10, 1999, until after May 31, 2000.

2. I was an employee of FastTrack Systems, Inc. before, during and after the period September 10, 1999 through May 31, 2000.

Conception

3. Claim 1, as currently pending in the above-identified patent application, calls roughly for a computer readable medium carrying a machine readable database identifying: (1) patient eligibility criteria for a clinical trial protocol; and (2) a plurality of workflow tasks for the clinical trial protocol. The workflow tasks are to include either (a) a post-enrollment instruction to have a specified test performed on the patient, or (b) a post-enrollment instruction to have a specified CRF completed for the patient.

4. We conceived of such a product well prior to September 10, 1999, and as evidence of this I attach, among other things (1) a document dated August 10, 1999 entitled "FASTTRACK Systems, Inc. Executive (sic) Summary" (attached hereto as Exhibit A), and (2) screen shots from two non-functional demos in existence as of July 20, 1999 at the request of FastTrack Systems (attached hereto as Exhibits B-H).

5. Exhibit A is an Executive Summary prepared by Michael Kahn and others at FastTrack Systems. The date of the document is not in the document itself, but the name of the document on disk is "FT Executive Smry 8_10_99.doc" Thus the date of this document is August 10, 1999, a month prior to September 10, 1999.

6. Pages 2-3 of Exhibit A recite:

> The heart of FASTTRACK's technology is the Intelligent Clinical Protocol (ICP). The clinical protocol is the foundation of every trial and largely determines the time, cost and ultimate success or failure of the trial. All parts of a trial, including recruitment, treatment, data requirements, trial management and reporting, flow from detailed specifications contained in the protocol. FASTTRACK believes that a system driven by the fundamental protocol provides the best solution for improving the trial process.
>
> The ICP begins with a protocol authoring tool that exploits detailed knowledge bases such as trial design templates, historical and competing clinical trials, actual medical procedure costs, anonymized patient clinical summaries, FDA and European regulatory requirements, preclinical pharmacokinetic and pharmacodynamic models and statistical parameters to assist the pharmaceutical

> medical director optimize study design and model all aspects of the clinical development process. FASTTRACK software automatically translates the protocol into an intelligent electronic Case Report Form (eCRF) to be transmitted electronically to the physicians performing trials. Anticipating the rapid growth of electronic medical records, the eCRF will automatically screen the physician's or institution's current patient records to determine trial eligibility.
>
> Following enrollment, FASTTRACK protocol-directed workflow management software will generate appropriate role-specific task lists to ensure that the physician, nurses and other staff execute the trial tasks as specified in the protocol. Finally, FASTTRACK standard point of care data collection devices to ensure that all required data is captured in real time and is automatically 'reality & quality checked' while the patient is in the physician's exam room.
>
> ***
>
> Additional direct benefits to the study sponsors include: rapid analysis of interim study results, immediate implementation of any mid-study protocol modifications, near real-time monitoring of patient accrual and other project milestones, and point-of-service data validation and quality assurance. Direct benefits to study locations include: rapid patient accrual using automated screening tools, automatic protocol modifications without manual intervention, automated workflow and task lists for improved study productivity and throughput, and electronic data capture eliminating paper piles. The use of automated processes will eliminate many oversight steps which currently are done manually. Removing the manual tasks will significantly reduce direct labor costs, travel expenses, and time-to-database-lockdown.

7. On information and belief, the ICP referred to in this excerpt was to be a database that would include numerous facets of a clinical trial protocol. The database was to drive numerous automated process tools for both pre- and post-enrollment processes defined by the protocol. The mentions in the last paragraph of the excerpt, concerning "immediate implementation of any mid-study protocol modifications," "rapid patient accrual using automated screening tools," "automatic protocol modifications without manual intervention," and "automated workflow and task lists," all corroborate my recollection that the automated tools would be driven by the ICP database, such that a change in the content of the database would automatically modify the operation of all dependent tools without manual intervention. In order to accomplish this, the database was to include all the necessary data for driving these tools. Such data was to include

"patient eligibility criteria", so as to drive the mentioned automated patient screening tools, as well as "post-enrollment instructions to have a specified test performed on a patient", so as to drive the "automated workflow and task lists."

8. My recollection that the database was to include "patient eligibility criteria" is corroborated further by the statement in the above excerpt that "FASTTRACK software automatically translates the protocol into an intelligent electronic Case Report Form (eCRF) to ... automatically screen the physician's or institution's current patient records to determine trial eligibility."

9. My recollection that the database was also to include "post-enrollment instructions to have a specified test performed on a patient", is corroborated further by the statement in the above excerpt that "Following enrollment, FASTTRACK protocol-directed workflow management software will generate appropriate role-specific task lists to ensure that the physician, nurses and other staff execute the trial tasks as specified in the protocol." I recall that the "role-specific tasks" referred to in this statement included tasks which included performing specific tests on a patient, such as to draw blood for blood tests specified by the protocol for the current patient visit.

10. My recollection that the database was also to include "post-enrollment instructions to have a specified CRF completed for a patient," is corroborated by the statement in the above excerpt that "Finally, FASTTRACK standard point of care data collection devices to ensure that all required data is captured in real time and is automatically 'reality & quality checked' while the patient is in the physician's exam room."

11. Exhibit B. Exhibit B is a screen shot of the directory listing of a folder on a FastTrack Systems CD-ROM, setting forth the last-modified date of two software applications, SITE.exe and SPONSOR.exe. The last-modified dates for the two programs are both shown as "7/20/1999", which is well prior to September 10, 1999.

12. SITE.exe was a non-functional demo developed at the request of FastTrack Systems by a company called MONKEYmedia. The software presented a mock-up of some of the features that we expected that a study site's tool would support when executed.

13. SPONSOR.exe was another a non-functional demo developed at the request of FastTrack Systems by MONKEYmedia. SPONSOR.exe presented a mock-up of some of the features that we expected that a study sponsor's tool would support when executed.

14. Exhibits C-E are screen shots generated by the SITE.exe program when executed. Because the version of the program that was executed to generate these screen shots was not modified since its "last-modified" date of July 20, 1999, these screen shots show features that were present in the program as of that date.

15. Exhibit C illustrates the initial screen. It can be seen that the tool was to allow study site physicians to view information regarding patients, protocols, accrual information, and on-study tasks, among other things.

16. Exhibit D is a screen shot illustrating a sample Recruitment Simulator screen, within the Setup tab in Exhibit C. The fact that it shows Eligibility Criteria for a particular clinical trial protocol EST2190, further corroborates my recollection that the

database that would drive the study site tool would include patient eligibility criteria for the protocol.

17. Exhibit E is a screen shot illustrating a sample Schedule screen, within the On Study tab in Exhibit C. The fact that it shows a series of tasks to be performed in a particular visit by a particular patient, including (among other tasks) instructions to perform a Chest X-Ray, evaluate Pulmonary Function, perform a Pelvic Exam, and perform a Bone Scan, further corroborates my recollection that the database that would drive the study site tool would include post-enrollment instructions to have specified tests performed on a patient.

18. Exhibits F-H are screen shots generated by the SPONSOR.exe program when executed. Again, because the version of the program that was executed to generate these screen shots was not modified since its "last-modified" date of July 20, 1999, these screen shots show features that were present in the program as of that date.

19. Exhibit F illustrates the initial screen. It can be seen that the tool was to allow study sponsor physicians to view information regarding protocol authoring, among other things.

20. Exhibit G is a screen shot illustrating a sample Eligibility Checklist screen, within the Authoring tab in Exhibit F. The fact that it shows Eligibility Criteria for a particular clinical trial protocol EST2190, further corroborates my recollection that the database that would drive the study sponsor tool, as well, would include patient eligibility criteria for the protocol.

21. Exhibit H is a screen shot illustrating a sample Protocol Editor screen within the Authoring tab in Exhibit F. The graphic on this screen illustrates a study

schema setting forth the visit sequences that a patient would follow according to the clinical trial protocol, and the tasks that would be performed on each visit, all as would be included in the ICP database. The fact that various tests would be performed on the patient at many of such visits corroborates my recollection that the database that would drive the study sponsor tool, as well, would include post-enrollment instructions to have specified tests performed on a patient.

Diligence Toward Actual Reduction To Practice

22. In the following paragraphs, my memory of some of the dates I state is corroborated by the "last modified" date of the relevant document in my personal computer archives. Exhibit V is a screenshot of a directory listing showing these last modified dates (in the column called "Date Modified") on my computer. I have redacted file and directory names not required for purposes of this Declaration, and I have written in the Exhibit letters for the documents in the directory that correspond to the exhibits attached hereto.

23. FastTrack Systems worked diligently toward developing a working prototype of a system incorporating the invention. Roughly described, the process involved first developing a series of high level "use cases", setting forth a preliminary vision of what functions a system according to the invention would perform for a user. These preliminary "use cases" were prepared mainly by me, together with others within FastTrack Systems.

24. Next, FastTrack Systems retained MONKEYmedia to help work through and refine the high level use cases, and develop a preliminary design for the graphical user interface (GUI). The development of the demo software described above was one of MONKEYmedia's deliverables, and was a necessary step in the ultimate development of a working prototype system. MONKEYmedia also worked on a Functional Specification which set out the detailed requirements that software programmers need to code the functional prototype. MONKEYmedia worked closely with us continuously on these projects from about July 1999 through about July 2000.

25. Partially concurrently with MONKEYmedia's work, FastTrack Systems also engaged Concept Five Technologies, Inc., a software development firm, to develop the use cases and GUI design into a functional prototype system. Concept Five's process included drafting a software Architecture document, which divides the desired operation of the system into many functional components and specifies the ways that they are to interact in order to accomplish the desired operations. The Architecture document was developed and revised over numerous drafts. Concept Five also drafted technical specifications for many of the individual functional components, which is the next level of detail toward actual coding of the software. Concept Five worked closely with us continuously on these projects from about September 1999, well into 2000.

26. Beginning in January 2000, FastTrack Systems began hiring its own internal engineering team. Concept Five handed off the continued prototype development work to this team over a period of several months beginning in April 2000. Exhibit Q is a planned overview of this transition as prepared by Mr. Rick Larsen in March 2000. I recognize this document because I received a copy of it. My recollection of the date it was prepared is corroborated by the file listing in Exhibit V, which shows the document "C5transition2(rick)" as having a last-modified date of March 28, 2000.

27. Exhibit I, on information and belief, is a copy of pages 115-118 from Michael Kahn's second notebook. These pages appears to be his notes of a status meeting on October 20, 1999 with the development company, MONKEYmedia, which corroborates my recollection that MONKEYmedia were proceeding with their development of the Functional Specification.

28. Exhibit J, on information and belief, is a copy of page 140 from Michael Kahn's second notebook, which contains what appears to be his notes of an October 28, 1999 Board Meeting. The second "accomplishment" listed at the bottom of the page says, "Conducted market research, defined architecture and Release 1, started development." This note corroborates my recollection that development of the prototype was proceeding.

29. Exhibit R is a set of "Scenario Stories" prepared by MONKEYmedia, of which I received a copy in October 1999. My recollection of the date that I received this document is corroborated by the file listing in Exhibit V, which shows the document "scenario_storiesFTSS-03" as having a last-modified date of October 13, 1999. This document sets forth three example scenarios in which the system being developed would address, and indicates how the system would operate in each. Scenario One mentions that the clinical coordinator checks her FastTrack Systems Dashboard (a user interface to the system) and finds in a Task Management screen a list of the tasks to be performed during the visit of patient Jane Doh on Thursday. Other tasks are listed which are to completed before Jane Doh's following visit. The tasks listed include "chest X-ray".

30. In addition, Scenario One also recites that the "task list" is downloaded to a HandHeld device ("HH"), and various personnel perform the tasks listed on the HandHeld. The status of the tasks on the task list are later uploaded to the central FastTrack Systems database.

31. These recitations corroborate my recollection that the database in the prototype system being developed was to include post-enrollment instructions to have specified tests performed on a patient (such as taking a chest X-ray).

32. Furthermore, Scenario Three in Exhibit R recites that prior to enrolling patients for a new study at a particular clinic, the clinical coordinator disseminates an "eligibility checklist" to MD's and care providers via the HandHeld. This recitation corroborates my recollection that the database in the prototype system would include patient eligibility criteria for the clinical trial protocol.

33. Exhibit K are the cover page and pages 12-17 and 22-23, from the version 1.0d05 of the Functional Specification. This document corroborates my recollection that development of the document by MONKEYmedia was still proceeding as of its date, which is December 17, 1999.

34. The description on pages 22-23 of Exhibit K, entitled "3 Eligibility Checklist", corroborates my recollection that the database in the prototype system would include patient eligibility criteria for the clinical trial protocol.

35. The description on pages 12-17 of Exhibit K, entitled "3 Patient Task Screens", concerns tasks that are to be performed on a particular patient on a particular visit. This particular description does not provide specific example tasks, but nevertheless it does corroborate my recollection that the database in the prototype system would include post-enrollment instructions to have specified tests performed on a patient.

36. Exhibit L, on information and belief, is a copy of page 63 from Michael Kahn's third notebook, which contains what appears to be his notes of a meeting on January 10, 2000. The list of attendees at this meeting includes Mr. Luke Brennan, who was a programmer hired to help code the prototype system. This document corroborates my recollection that by January 10, 2000 we had hired our first programmer to help code the prototype system.

37. FastTrack Systems also hired Mr. Rick Larsen, who started employment at FastTrack Systems in mid-February 2000 as Vice President of Engineering. One of Mr. Larsen's tasks was to oversee the further development of the prototype system.

38. Exhibit M is a spreadsheet which I understand was provided by Mr. Larsen, and which appears to be a schedule showing numerous tasks being performed and to be performed during the period March 13, 2000 and June 23, 2000, toward the development of the prototype. The document corroborates my recollection that the prototype system was in active development before, during and after the period March 13, 2000 through May 31, 2000.

39. Exhibit N is a set of invoices submitted by MONKEYmedia to FastTrack Systems for the development work described above. I recognize these invoices because I was the primary person that approved them for payment, as evidenced by my approval signature on many of the invoices.

40. The invoices show retainers invoiced from June 1999 through June 2000, thousands of person-hours of time spent by MONKEYmedia personnel during the same time period, expenses reimbursed to MONKEYmedia personnel, updated Project Assignment contracts, and other evidence of continuous development work up to Project Completion on July 21, 2000. These invoices corroborate my recollection that MONKEYmedia worked closely with us continuously on the above-described projects from at least as early as July 1999 through about July 2000.

41. Exhibit O is a spreadsheet prepared by Concept Five in August 1999, as part of their proposal for performing the software development work for FastTrack described above. The top half is a proposed budget for their work through December

1999 assuming they were to begin by September 1, 1999, and the bottom half is a proposed budget for their work through December 1999 assuming they were not to begin work until mid-September. I received this document in August 1999, and it corroborates my recollection that Concept five joined MONKEYmedia on the prototype development team in September 1999. My recollection of the date I received this document is corroborated by the file listing in Exhibit V, which shows the document "c5proposal" as having a last-modified date of August 13, 1999.

42. Exhibit P is a Work Plan Summary prepared by Concept Five and received by me in October 1999. My recollection of the date I received this document is corroborated by the file listing in Exhibit V, which shows the document "WorkPlanSummaryv0.2" as having a last-modified date of October 6, 1999. This document shows work done by Concept Five beginning no later than September 24, 1999, and projected to continue uninterrupted through at least December 6, 1999. In fact Concept Five's engagement with FastTrack Systems began at least as early as September 22, 1999 (see Exhibit S) and extended well into 2000. This document corroborates my recollection that Concept Five worked closely with us continuously on the above-described projects from September 1999, well into 2000.

43. Exhibit S is an Architecture Document rev. 0.1, dated September 22, 1999, and prepared by Concept Five. I received a copy of this document. This document corroborates my recollection that prototype development was in process on September 22, 1999, and probably earlier, since it would have taken some time for Concept Five to have assembled this document. Concept Five delivered a series of these Architecture

Documents, progressively refining them, over the months of their engagement with FastTrack Systems.

44. As can be seen, page 6 of Exhibit S, column 2, first paragraph, recites:

> "The heart of FastTrack's proprietary information technology is the Intelligent Clinical Protocol (ICP). The clinical protocol is the foundation of every trial and largely determines the time, cost and ultimate success or failure of the trial. All parts of a trial, including recruitment, treatment, data requirements, trial management and reporting, flow from detailed specifications contained in the protocol....
>
> FastTrack software will automatically translate the protocol into an electronic Case Report Form (eCRF) to be transmitted electronically to the physicians performing trials. Anticipating the rapid growth of electronic medical records, the eCRF will automatically screen the physician's or institution's current patient records to determine trial eligibility.
>
> Following enrollment, FastTrack workflow management software will generate appropriate role-specific task lists to ensure that the physician, nurses and other staff execute the trial tasks as specified in the protocol. Finally, FastTrack point of care devices will ensure that all required data is captured in real time and is automatically 'reality & quality checked' while the patient is in the physician's exam room."

45. The document's reference to and ICP, and its reference to automatic screening for trial eligibility, and its reference to workflow management software to generate role-specific task lists, as well as its reference to the capturing of data in real time, all corroborate my recollection that the system that was being developed in September 1999 would include a machine readable database (ICP) containing: patient eligibility criteria for a clinical trial protocol, and workflow tasks for the clinical trial protocol, including both post-enrollment instructions to have specified tests performed on a patient, and a post-enrollment instruction to have a specified CRF completed for the patient.

46. Exhibit T is rev. 3.0 of the Architecture Document, which I received in early February 2000. My recollection of the date I received this document is corroborated

by the file listing in Exhibit V, which shows the document "ApplicationArchitectur..." as having a last-modified date of February 3, 2000. This document corroborates my recollection that prototype development was still in process in early February 2000.

47. In addition, Exhibit T's reference, at p. 5, first paragraph, to ICP-based tools, trial set-up tools to check for eligible patients, and accrual and task management, all corroborate my recollection that the system that was being developed in February 2000 would include a machine readable database (ICP) containing: patient eligibility criteria for a clinical trial protocol, and workflow tasks for the clinical trial protocol, including post-enrollment instructions to have specified tests performed on a patient. My recollection is further corroborated by the mention twice in the Message Flow diagram on p.6 of Exhibit T, of "Patient Visit" and "Patient Eligibility".

48. Exhibit U is rev. 3.6 of the Architecture Document, which I received in late February 2000. My recollection of the date I received this document is corroborated by the file listing in Exhibit V, which shows the document "ApplicationArchitectur..." as having a last-modified date of February 22, 2000. This document corroborates my recollection that prototype development was still in process in late February 2000.

49. In addition, Exhibit U's first paragraph on p. 6, contains roughly the same recitations as the first paragraph on p.5 of Exhibit T. As mentioned above, these recitations corroborate my recollection that the system that was being developed in late February 2000 would include a machine readable database (ICP) containing: patient eligibility criteria for a clinical trial protocol, and workflow tasks for the clinical trial protocol, including post-enrollment instructions to have specified tests performed on a patient.

50. Furthermore, my recollection is further corroborated by the database shown in the Message Flow diagram on p.7 of Exhibit U, which recites, "Trials DB: Patients; Visits; Management; CRF; Protocol." This recitation also corroborates my recollection that the ICP that was to be included in the system being developed in late February 2000 would also include post-enrollment instructions to complete a specified CRF.

51. Accordingly, FastTrack Systems proceeded diligently, from a date prior to September 10, 1999, to a date later than May 31, 2000, toward an actual working prototype of the invention of the subject patent application.

52. All the activities described in this Declaration, as well as the preparation of each of the documents described in this Declaration, all took place in the United States.

53. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that the statements are made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the U.S. Code and that such willful false statements may jeopardize the validity of the application for any patent issued thereon or of any reexamination certificate.

DATED: 3/21/2008

MICHAEL MISCHKE-REEDS

EXHIBIT A TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

EXECUTIVE SUMMARY

FASTTRACK Systems, Inc.
Executive Summary

What is FASTTRACK?

FASTTRACK is a clinical informatics and services company built around a network of domestic and international clinical trial sites and sponsors connected by advanced information technologies designed to greatly reduce the cost and improve the quality and timeliness of clinical trials. FASTTRACK focuses on Phase II and Phase III trials that are increasingly becoming the critical factor in time to market for new drugs.

Why is FASTTRACK Important?

Over the next five years, pharmaceutical products worth $30B in annual revenue will come off patent. In order to maintain the growth rates driving current valuations, the pharmaceutical industry must more than double the rate of new product introductions while maintaining current expense levels. Technologies such as combinatorial chemistry and high throughput screening have reduced the pre-clinical cycle time and the FDA Modernization Act and EU harmonization have reduced regulatory review times. But the human clinical trial time and costs have continued to grow. The time required for clinical trials now approaches 50% of the 14.7 years that it takes the average new drug to come to market. Time to market is often the most important factor driving pharmaceutical profitability -- a recent study demonstrated that the first drug-in-class to market averages a 50% market share with competing products dividing the remainder. In addition, the time for a second drug in a new class to appear in the market has decreased from six year to six month. An industry rule of thumb states that for a drug with billion-dollar market potential, each day spent in clinical trials reduces potential revenue by $3 million due to patent expiration issues.

Clinical trials are expensive and trial costs are growing twice the rate of revenue growth. In US pharmaceutical companies alone, about $8B or 40% of total pharmaceutical R&D is spent annually on human clinical trials. Spending on clinical trials is growing 15% per year, almost 50% above the industry's sales growth rate. Trials are growing both in number and complexity, growing from 30 trials per new drug application and less than 100 procedures per trial to almost 70 trials per application and about 160 procedures per trial, over the past 20 years. The trials process is largely paper-based and highly inefficient. In order to maintain growth and profitability, the pharmaceutical industry must significantly reduce the time and cost it takes to complete human clinical trials.

What is FASTTRACK's Advantage?

FASTTRACK Systems is assembling a network of clinical trial sites that will be linked together using FASTTRACK's proprietary information technology. The FASTTRACK network provides a total integrated solution to the clinical trials process with significant advantages over fragmentary approaches, such as:

- An internet-based virtual network of "certified" and trained trial sites drawn from community clinics, specialty networks and academic centers, all which will use FASTTRACK technology to deliver efficient accrual, accurate and timely data collection and reporting, and real-time trial monitoring and compliance.
- A direct e-commerce connection between sponsors and sites that will help both parties to meet their trial goals.
- Advanced medical informatics technology that automatically generates all workflow procedures, data collection, and documentation based on the trial protocol, assuring strict adherence to protocol specifications, responsiveness to protocol changes, and timely collection of data at the point of care.
- Central resources of software and databases that can assist both sponsor and site in optimizing trials and trial accrual, including accrual modeling, cost analysis, and trial enrollment.

The heart of FASTTRACK's technology is the Intelligent Clinical Protocol (ICP). The clinical protocol is the foundation of every trial and largely determines the time, cost and ultimate success or failure of the trial. All parts of a trial, including recruitment, treatment, data requirements, trial management and reporting, flow from detailed specifications contained in the protocol. FASTTRACK believes that a system driven by the fundamental protocol provides the best solution for improving the trial process.

The ICP begins with a protocol authoring tool that exploits detailed knowledge bases such as trial design templates, historical and competing clinical trials, actual medical procedure costs, anonymized patient clinical summaries, FDA and European regulatory requirements, pre-clinical pharmacokinetic and pharmacodynamic models and statistical parameters to assist the pharmaceutical medical director optimize study design and model all aspects of the clinical development process. FASTTRACK software automatically translates the protocol into an intelligent electronic Case Report Form (eCRF) to be transmitted electronically to the physicians performing trials. Anticipating the rapid growth of electronic medical records, the eCRF will automatically screen the physician's or institution's current patient records to determine trial eligibility.

Following enrollment, FASTTRACK protocol-directed workflow management software will generate appropriate role-specific task lists to ensure that the physician, nurses and other staff execute the trial tasks as specified in the protocol. Finally, FASTTRACK standard point of care data collection devices to ensure that all required data is captured in real time and is automatically 'reality & quality checked' while the patient is in the physician's exam room.

Results will be uploaded to FASTTRACK's repository, checked by on-line queries, and loaded into the sponsor's database for statistical analysis and subsequent FDA/EMEA submission. Using highly sophisticated temporal trending and abstraction technology, the FASTTRACK database can continuously search for complex evolving patterns such as subtle but progressive toxicity or adverse events. Following approval, FASTTRACK expects to repackage this information for the sponsor's marketing group to accelerate sales ramp-up. FASTTRACK network sites will also continue data collection after the trial is over for additional marketing and post-marketing surveillance purposes.

Additional direct benefits to the study sponsors include: rapid analysis of interim study results, immediate implementation of any mid-study protocol modifications, near real-time monitoring of patient accrual and other project milestones, and point-of-service data validation and quality assurance. Direct benefits to study locations include: rapid patient accrual using automated screening tools, automatic protocol modifications without manual intervention, automated workflow and task lists for improved study productivity and throughput, and electronic data capture eliminating paper piles. The use of automated processes will eliminate many oversight steps which currently are done manually. Removing the manual tasks will significantly reduce direct labor costs, travel expenses, and time-to-database-lockdown.

FASTTRACK will deliver its information services to sponsors, CROs and sites over the Internet using a central application service provider (ASP) and thin-client model that supports multiple user devices including workstations and hand-held computers. This approach will reduce cost, complexity and learning times for its users, providing them with service-based solutions rather than simply software. It also provides a direct connection between trial sites and sponsors, eliminating much of the inefficiency associated with middlemen services. All software and data will be centrally maintained for reasons of efficiency and security. Confidentiality will be maintained through strict use of modern encryption protocols and standards.

What is FASTTRACK's Business Model?

FASTTRACK will provide its solutions using a service-based business model in which FASTTRACK rather than sponsors or individual sites take responsibility for the entire trial process. This will eliminate the need for sponsors or sites to learn and support the complex technology underlying FASTTRACK and permit them to focus on the trials themselves. It will also eliminate the need for large up-front investments in equipment, software and training.

The FASTTRACK network will incorporate clinical specialty networks, community practices and academic medical centers. Each site will use the FASTTRACK information system to recruit patients, manage their trials and deliver information to sponsors. FASTTRACK will maintain a central data base that will improve accrual efficiency and provide sponsors with quantitative proof of FASTTRACK network sites' ability to deliver patients and produce high-quality data in a timely and cost-efficient manner. FASTTRACK will also provide a central clearinghouse function so that sites can learn about other trials for which their particular patient

populations would be appropriate, thereby increasing the number of trials in which they can participate. FASTTRACK's customers will include pharmaceutical organizations, CROs, SMOs and its network of trial sites. Its revenues will be derived from:

- Licenses for the protocol authoring tool based on number of trials for which it is used by each sponsor.
- Sponsor access to the central FASTTRACK anonymized database for recruitment simulation and protocol refinement and other knowledge bases, such as cost databases and population-based accrual estimates.
- Trial management and reporting services for each site using a combination of transaction and subscription pricing models.
- Sales of anonymized data to support sponsor marketing programs.
- Specialized services to support electronic data submission and other regulatory reporting requirements.
- Queries of practice locations regarding interest in potential studies or estimates of availability of unusual patient populations, marketing dynamics, longitudinal outcomes studies.
- Addition of specialized non-protocol-required screening variables, such as functional status measures, which can be used as alternative endpoints should a clinical study fail to meet its designed endpoints.
- Addition of specialized non-protocol-required variables, such as insurance status, which can be used by the site practice management administration for detailed clinical-financial evaluation of local case-mix and practice patterns.

FASTTRACK intends to focus initially on trials involving drugs with complex protocols, high patient surveillance requirements, high activity intensity, high data volume and large market potential. Examples include oncology, HIV, cardiovascular and neuroactive drug trials. Once the FASTTRACK service is operating smoothly and its fixed costs are covered the Company will expand the service to other drugs and possibly devices.

Who is FASTTRACK?

FASTTRACK has assembled an executive management team of world-renowned leaders in medical informatics, clinical drug development and commercial clinical software development and proven start-up and high growth management experience. Members of the FASTTRACK Clinical Advisory Board and the Scientific Advisory Board represent world class, success-driven leaders in their fields from institutions such as Stanford University, Washingtion Univiersity in St. Louis, and the National Cancer Institute. The team has played central roles in the development of such drugs as zidovudine (Retrovir™), paclitaxel (Taxol™), doxorubicin (Doxil), mitoxantrone (Novantrone™), cis-platinum (Platinol™), didanosine (Videx™), zalcitabine (Hivid™). FASTTRACK Systems is funded by CW Ventures and ARCH Ventures, two of the leading healthcare venture capital funds that have been responsible for founding

such leading edge companies as Athena Neurosciences, Aurora Biosciences, Caliper Technologies, Millenium Pharmaceuticals, Pharmacopeia, Sugen Pharmaceuticals and Vertex Pharmaceuticals.

Summary – The FASTTRACK Advantage

FASTTRACK provides the solution by which pharmaceutical companies will overcome the key bottleneck in getting new drugs to market. By offering a total set of information solutions and services for trials development and management based on unique technology it expects to revolutionize the way trials are conducted, taking significant costs and time out of the system and improving the overall success rate of the process. It provides direct, synergistic benefits to both sites and sponsors, creating a "win-win" for all participants in the clinical trial arena. We invite your inquiries about how we can help you.

EXHIBIT B TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCREEN SHOT OF DIRECTORY LISTING

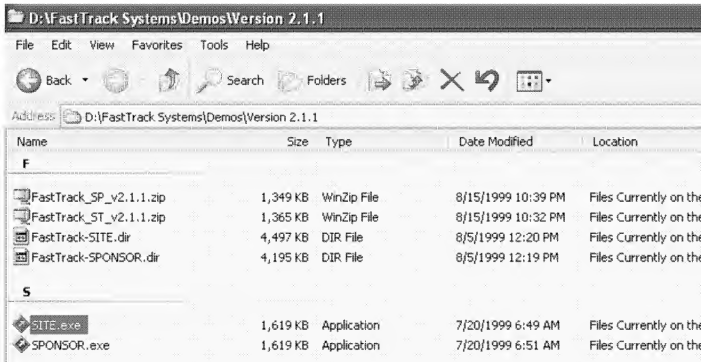

D:\FastTrack Systems\Demos\Version 2.1.1
File Edit View Favorites Tools Help
Back
Search
Folders
Address D:\FastTrack Systems\Demos\Version 2.1.1
Name Size Type Date Modified Location
F
FastTrack_SP_v2.1.1.zip 1,349 KB WinZip File 8/15/1999 10:39 PM Files Currently on the
FastTrack_ST_v2.1.1.zip 1,365 KB WinZip File 8/15/1999 10:32 PM Files Currently on the
FastTrack-SITE.dir 4,497 KB DIR File 8/5/1999 12:20 PM Files Currently on the
FastTrack-SPONSOR.dir 4,195 KB DIR File 8/5/1999 12:19 PM Files Currently on the
S
SITE.exe 1,619 KB Application 7/20/1999 6:49 AM Files Currently on the
SPONSOR.exe 1,619 KB Application 7/20/1999 6:51 AM Files Currently on the

EXHIBIT C TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCREEN SHOT OF SITE.EXE, INITIAL SCREEN

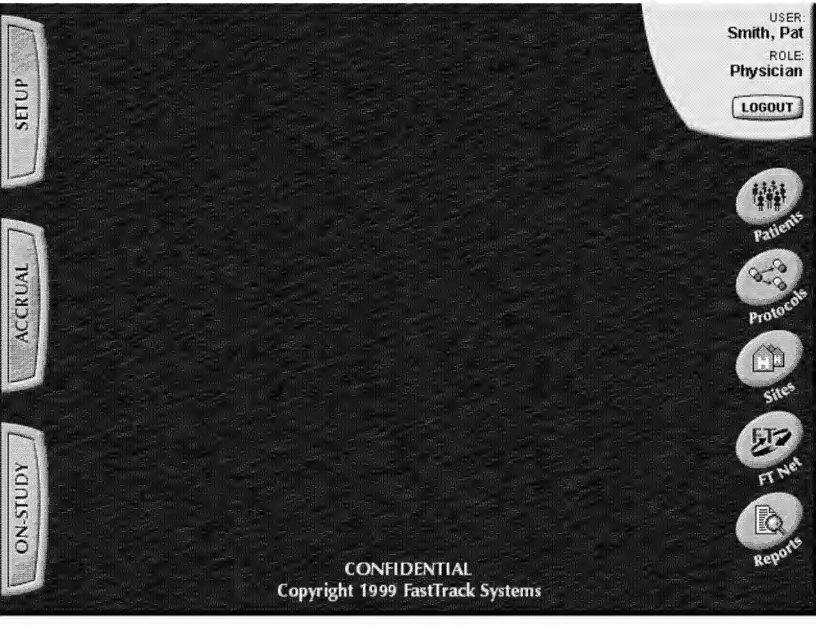

SETUP
ACCRUAL
ON-STUDY
USER:
Smith, Pat
ROLE:
Physician
LOGOUT
Patients
Protocols
Sites
FT Net
Reports
CONFIDENTIAL
Copyright 1999 FastTrack Systems

EXHIBIT D TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCREEN SHOT OF SITE.EXE, SAMPLE RECRUITMENT SIMULATOR SCREEN

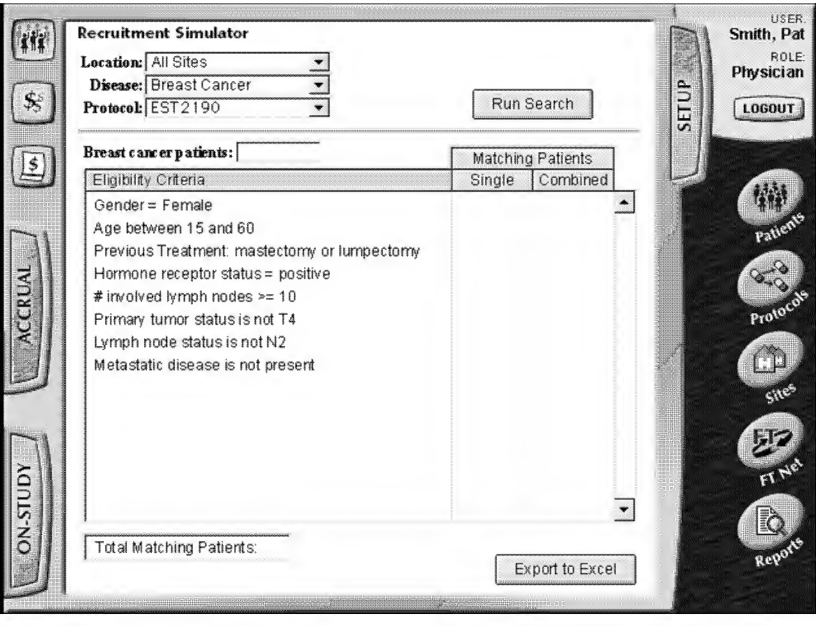

Recruitment Simulator
Location: All Sites
Disease: Breast Cancer
Protocol: EST2190
Run Search
Breast cancer patients:
Matching Patients
Eligibility Criteria
Single
Combined
Gender = Female
Age between 15 and 60
Previous Treatment: mastectomy or lumpectomy
Hormone receptor status = positive
involved lymph nodes >= 10
Primary tumor status is not T4
Lymph node status is not N2
Metastatic disease is not present
Total Matching Patients:
Export to Excel
ACCRUAL
ON-STUDY
SETUP
USER:
Smith, Pat
ROLE:
Physician
LOGOUT
Patients
Protocols
Sites
FT Net
Reports

EXHIBIT E TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCREEN SHOT OF SITE.EXE, SAMPLE SCHEDULE SCREEN

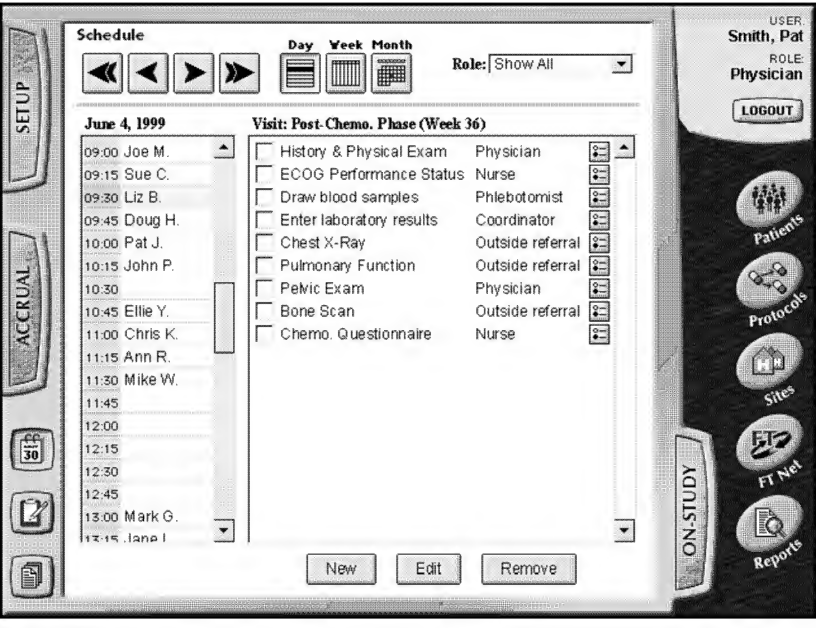

Schedule
Day
Week
Month
Role: Show All
USER:
Smith, Pat
ROLE:
Physician
LOGOUT
SETUP
ACCRUAL
ON-STUDY
Patients
Protocols
Sites
FT Net
Reports
June 4, 1999
09:00 Joe M.
09:15 Sue C.
09:30 Liz B.
09:45 Doug H.
10:00 Pat J.
10:15 John P.
10:30
10:45 Ellie Y.
11:00 Chris K.
11:15 Ann R.
11:30 Mike W.
11:45
12:00
12:15
12:30
12:45
13:00 Mark G.
13:15 Jane I.
Visit: Post-Chemo. Phase (Week 36)
History & Physical Exam Physician
ECOG Performance Status Nurse
Draw blood samples Phlebotomist
Enter laboratory results Coordinator
Chest X-Ray Outside referral
Pulmonary Function Outside referral
Pelvic Exam Physician
Bone Scan Outside referral
Chemo. Questionnaire Nurse
New
Edit
Remove

EXHIBIT F TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCREEN SHOT OF SPONSOR.EXE, INITIAL SCREEN

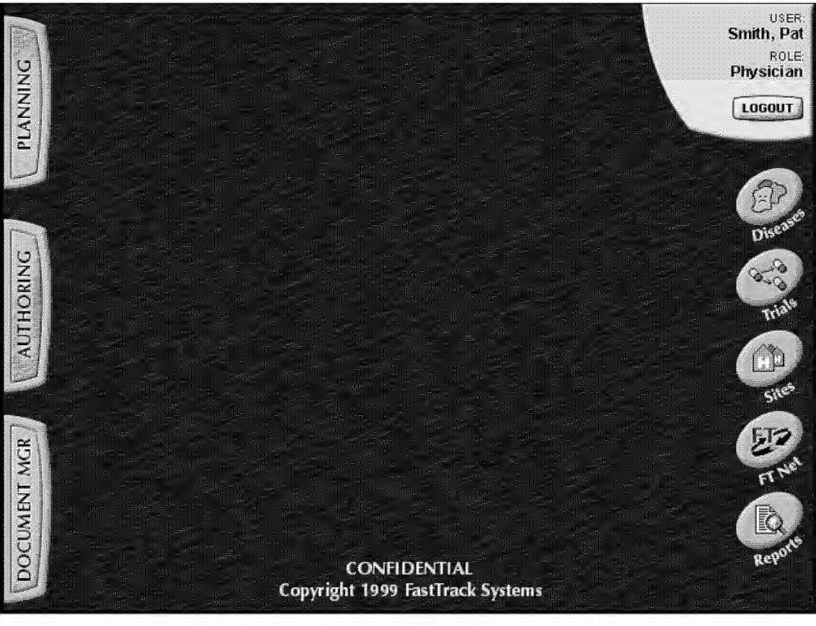

PLANNING
AUTHORING
DOCUMENT MGR
USER:
Smith, Pat
ROLE:
Physician
LOGOUT
Diseases
Trials
Sites
FT Net
Reports
CONFIDENTIAL
Copyright 1999 FastTrack Systems

EXHIBIT G TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCREEN SHOT OF SPONSOR.EXE, SAMPLE ELIGIBILITY CHECKLIST SCREEN

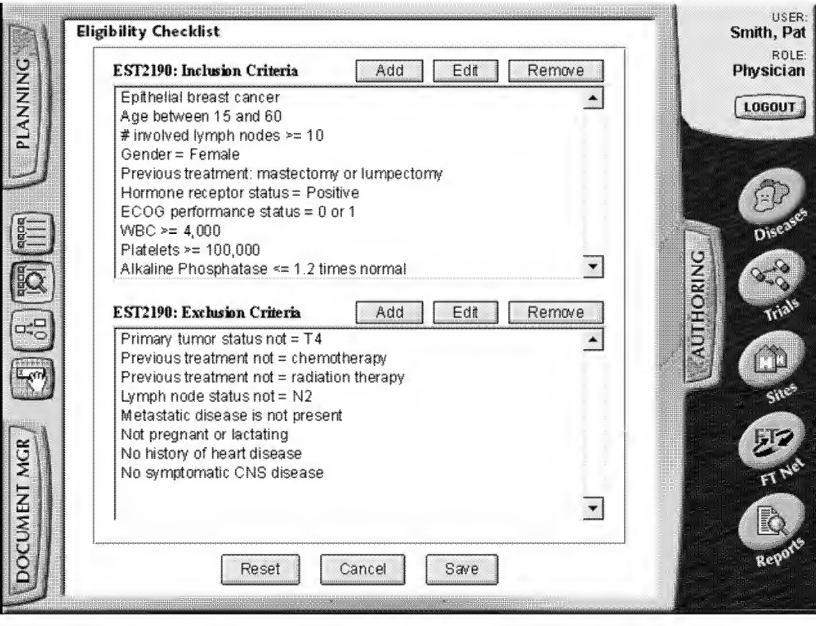

Eligibility Checklist
EST2190: Inclusion Criteria
Add
Edit
Remove
Epithelial breast cancer
Age between 15 and 60
# involved lymph nodes >= 10
Gender = Female
Previous treatment: mastectomy or lumpectomy
Hormone receptor status = Positive
ECOG performance status = 0 or 1
WBC >= 4,000
Platelets >= 100,000
Alkaline Phosphatase <= 1.2 times normal
EST2190: Exclusion Criteria
Add
Edit
Remove
Primary tumor status not = T4
Previous treatment not = chemotherapy
Previous treatment not = radiation therapy
Lymph node status not = N2
Metastatic disease is not present
Not pregnant or lactating
No history of heart disease
No symptomatic CNS disease
Reset
Cancel
Save
PLANNING
DOCUMENT MGR
AUTHORING
USER:
Smith, Pat
ROLE:
Physician
LOGOUT
Diseases
Trials
Sites
FT Net
Reports

EXHIBIT H TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCREEN SHOT OF SPONSOR.EXE, SAMPLE PROTOCOL EDITOR SCREEN

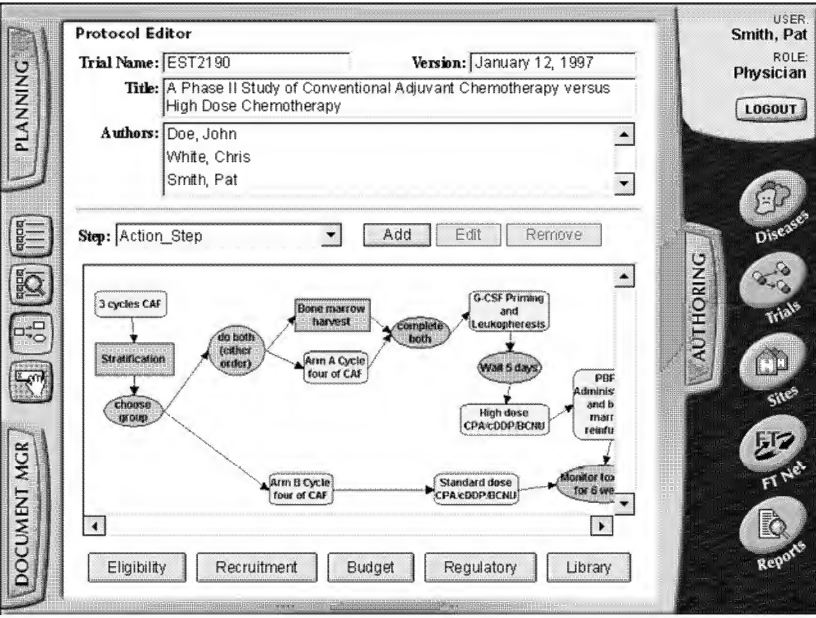

PLANNING
DOCUMENT MGR
Protocol Editor
Trial Name: EST2190
Version: January 12, 1997
Title: A Phase II Study of Conventional Adjuvant Chemotherapy versus High Dose Chemotherapy
Authors: Doe, John
White, Chris
Smith, Pat
Step: Action_Step
Add
Edit
Remove
3 cycles CAF
Stratification
choose group
do both (either order)
Bone marrow harvest
Arm A Cycle four of CAF
complete both
G-CSF Priming and Leukopheresis
Wait 5 days
High dose CPA/cDDP/BCNU
Arm B Cycle four of CAF
Standard dose CPA/cDDP/BCNU
Eligibility
Recruitment
Budget
Regulatory
Library
USER:
Smith, Pat
ROLE:
Physician
LOGOUT
AUTHORING
Diseases
Trials
Sites
FT Net
Reports

EXHIBIT I TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

PAGES 115-118 FROM SECOND NOTEBOOK OF MICHAEL KAHN

20 Oct 99

Requirements Group
Monkey Media - prototyping / GUI
Concept 5 - infrastructure

① WF Models
② MM Storyboards
③ Req List
Brent's document:
MC ; BS documents - fine grained documentation

Status: MC/BS
Accrual modeling (≈40% done)
List of use cases 92x (10 cases) ≈40% done
Concurrent issues list
Requirements document cross indexed
Study setup list
Task Management
Data Capture - Rev 2
Overall Features
Project Management / Dashboard (easy after setup/accrual)

Product Feature List: In/out
Accrual "issues"

Site Setup : Installation
Training
Interfaces
Investigator CVs
IRB

① Prescreening — QuickScreen <1 min
② Eligibility Preview using standard of care values — Elig Checklist <2 min
③ Consent
④ Study-specific Screening protocol / values — Elig Checklist; CRF
⑤ Enroll
⑥ Treatment protocol — Task List by Visit

Type of Treatment (treatment modalities)

Screening Patients based on QS features
Screening Studies based on patient/provider preferences
Task Management
- Consent process
- Screening tools
- Enrollment

PDQ groups by stage of disease + some special category
Stage 1 vs. Stage 2 Dx -
- couple of trials a surgery difference
- couple of trials = different RT
- nutrition / anorexia
- quality of life

* Must use Chemo or Chemo + Immunotherapy

Desk Board

(1) Institutional Summary

	Status	notes
Trial 1		
Trial 2		
Trial 3		

(2) Single Trial Summary

	Status	Reason	Next Steps
Patient 1			
Patient 2			
Patient 3			

(3) Patient View

	Expected Visit Date	Actual Visit Date	tests completed	issues
visit 1				
visit 2				
more pts				

(4) Calendar View (by week??)

Tuesday	Wed	Thurs

To Do / Reminder / Alert

(1) Trial Setup "go live"
(2) Queries or Audits, outstanding
(3) Patient Visits Expected Next Visit
(4) AE follow-up
(5) Missed visit

Site Setup → Patient (CRA)

Study Setup
- Elaborate proposal (Budget, Recruitment)
- Staffing (PI's, Coords)

Themes –
Milestones
Journey
Affect
Capacity; Resource Planning

EXHIBIT J TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

PAGE 140 FROM SECOND NOTEBOOK OF MICHAEL KAHN

23 Oct 99 Board Meeting — Rob Nelson, Antone

Approve Minutes 9/13/99

10,000 shares Kshama
DeClaire
$750,000 bridge $750,000
6% / annum
Due & payable in 30 days demand
demand up earlier than 6/1/2000

If Preferred B ≥ $5M, unit at least 1 new option investor, the outstanding principal or interest will be converted into Preferred B shares.

If Preferred B < $5M, the holder will have the option to convert outstanding principal & interest into Preferred B shares

Warrant: 10% of the loan amount
Warrant exercise price = Preferred B price
Warrant Term = 3 years.

Accomplishments:
Recruited Tom, set up office
Conducted market research, defined architecture and Release 1, started development
Recruited CTO & sponsors, started VC analysis
Initiated partner discussions
Developed financial model, business plans & presentation
Initiated investor discussions

EXHIBIT K TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

FUNCTIONAL SPECIFICATION V1.0D05, COVER PAGE AND PAGES 12-17 AND 22-23

Information architecture
Interaction technique
Interface design

FastTrack Systems

Functional Specification

by MONKEYmedia

version 1.0d05
December 17, 1999

CONFIDENTIAL

2. Patient List

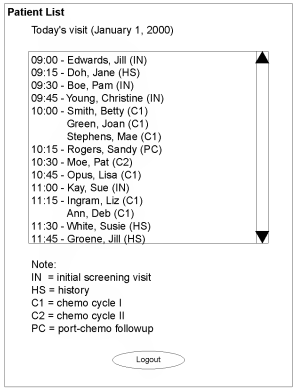


Figure 7 - Task List: Patient List

A successful login from the Patient List Log-in [1] leads to the Patient List. This screen allows access to all the patients scheduled at the clinic for that particular day

A user with patient list access rights selects the patient whose tasks will be displayed on the task list screens [3] by clicking on the appropriate patient.

The patient list is also the parking spot for the unit before it is put into the pre-docking state.

After a predetermined interval of time without user input, the system times out, logs the current user out and blanks the screen per Sleep Screen#1 [1.1].

3. Patient Task Screens

This area of functionality includes several different sub-sections:

- 3.1 — the Full Task List
- 3.2 — the Outstanding Tasks List
- 3.3 — the Task Info Screens

A user will arrive at this series of screens in one of two ways:

- As a staff member with "change patient" rights who has selected a different patient's tasks to view from the patient list [2].
- As a role player who is currently completing one of the listed tasks. This role will login via Login Screen #2 [4].

After a predetermined interval of time without user input, the system times out, saves any data that has been entered, logs the current user out, and blanks the display per 4.

Assumptions

The tasks listed are determined by two prerequisites:

- Clinical coordinator has reviewed all tasks associated with a particular patient visit and validated the tasks.
- Protocol-mandated tasks have been entered into the FTS by the FTS staff, such that the task list reflects the protocol.

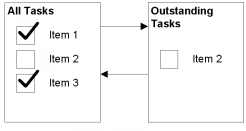


Figure 8 - Task List: All Tasks v. Outstanding Tasks

3.1 Patient Identifier Screen

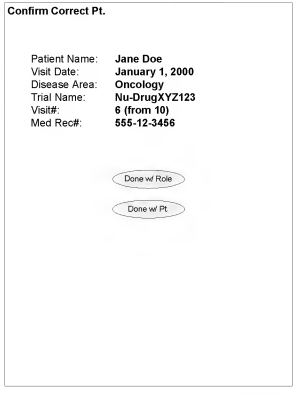


Figure 9 - Task List: Patient Identifier Screen

The user will use the following patient identifiers to confirm that the patient at hand matches the patient whose data is on the handheld unit.

- Patient name
- Visit date
- Disease area
- Trial name
- Visit number
- Medical record number
- Current user

This may be an independent screen or it may be embedded in the Full or Outstanding Task List.

If this is an independent screen, a predetermined interval of time without user input causes the system to time out, log of the current user, and blank the screen per [4].

If this is a separate screen, re-login from sleep/login screen #2 [4] could lead to this screen before the task list to help users avoid errors in patient care.

3.2 Full Task List

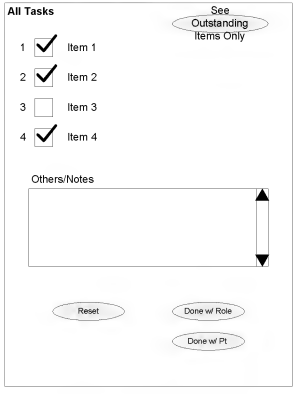


Figure 10 - Task List: Full Task List

The Full Task List includes all of the tasks associated with a particular patient visit for a particular day. This screen is the default view upon role-based login. A comment field at the bottom of the screen displays any notes the clinical coordinator has written to the staff members who will see the patient. Alternately, a staff member may enter a note for the clinical coordinator.

Information on any task may be obtained by clicking on the "info" button next to the item. This will open the Task Info Screen [3.3].

The [Reset] button returns the data to the state it was in before the most recent login.

After a task has been completed, the user checks it off in the list. When all the tasks associated with a role have been completed, the user clicks the [Done with Role] button. This action saves the data that has been entered and leads to Sleep/Login Screen #2 [4].

If some of the tasks associated with a role have not been completed before the user clicks [Done with Role], they will migrate from the Full list to the Outstanding list [3.2]. The user may toggle between the Full List and the Outstanding List using the appropriate button.

When all the tasks associated with a patient have been completed — and before the patient exits — the clinical coordinator reviews the task list. Any missing data may be gathered at that time, staff, supply, and patient availability permitting.

If no data is missing or it is not feasible to address any discrepancies at the time, the clinical coordinator may click the [Done with Patient] button to close the task list. This action saves all the data that has been entered and produces the Patient Rights Login Screen [5].

After a predetermined interval of time without user input, the system times out, saves any data that has been entered, logs the current user out, and blanks the display per 4.

There are pros and con's to using the reset button.

- Pro: It allows clearing of inadvertent entries
- Con: It risks creating confusion and clutter in the limited real estate.

3.3 Outstanding Tasks List

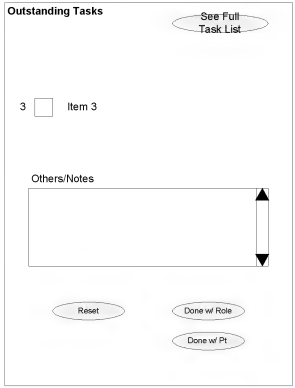


Figure 11 - Task List: Outstanding Tasks

The Outstanding Tasks List displays any items that remain to be addressed before the end of a patient visit. As noted above, all tasks not checked off by a role populate this screen.

Information on any task may be obtained by clicking on the "info" button next to the item. This will open the Task Info Screen [3.3].

After a predetermined interval of time without user input, the system times out, saves any data that has been entered, logs the current user out, and blanks the screen as per 4.

3.4 Task Info Screen

Figure 12 - Task List: Task Info Screen

Information about tasks is displayed on this screen. Clicking [OK] will take the user back to either the Full Task [3.1] or the Outstanding Tasks List [3.2].

After a predetermined interval of time without user input, the system times out, saves any data that has been entered, logs the current user out, and blanks the screen as per 4.

When the user checks off an item in the Outstanding List, then selects info on a task, the data may either remain on that screen or migrate to the Full List.

4 .Sleep/ Login Screen #2

Visually, this screen resembles Login Screen #1. For a full discussion of the functionality of the Login screens, see Chapter 5, "Ubiquitous Controls and Affordances."

This screen serves as the portal for a return to the Task List [3].

Sleep Screen #2 is a result of timeouts from the Task List [3], Login #2 [4], Failure Message #2 [4.1], Patient Rights Login [5] and Failure Message #3 [5.1].

5. Patient Rights Login Screen

Visually, this screen resembles the Patient Rights Login of Section One.

This screen inherits all the properties and rules of general Login and Sleep functionality as described in Chapter 5, "Ubiquitous Controls and Affordances," with the exception of the addition of a [Cancel] button to allow a return to the Task List [3].

A successful login takes the user to the patient list, while timeout from this screen takes the user to a login screen that leads back to the task list.

user to the Eligibility Checklist [3] for the trial. Clicking on [Back to QuickScreen] takes the user to the QuickScreen screen [1].

2.1 Trial Info #1

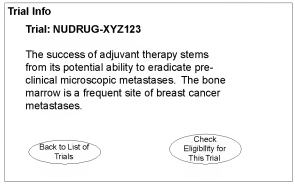


Figure 16 - QuickScreen: Trial Info #1

This screen will display a brief description of the trial selected by the user. The description may include a brief outline of some of the steps in the trial as well as details about what data the sponsor is looking for or what symptoms the drug addresses.

From this screen, the user may return to the Browse Trial Results screen [2] by clicking [Back to List of Trials] or go on to check eligibility by clicking on [Check Eligibility for This Trial].

3 Eligibility Checklist

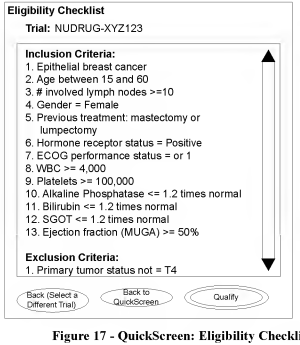


Figure 17 - QuickScreen: Eligibility Checklist

This screen is used to determine if the patient qualifies for a particular trial by viewing certain inclusion and exclusion criteria. These criteria will be trial specific.

As on the trial listing screen, more information about the trial can be read by clicking on the trial name below the patient identifiers. This leads to Trial Info #2 [3.1].

The user also has the option of returning to the Browse Trial Results [2] screen to select a different trial by clicking the [Back] button. A return to the QuickScreen may be accomplished by clicking [Back to QuickScreen].

Clicking [Qualify] produces the Qualification Confirmation Screen [4]. This button does *not* cause the unit to perform any calculation of eligibility.

Open issues related to this screen include:

- The number of trials, with all their different criteria, that the handheld unit can store.

3.1 Trial Info #2

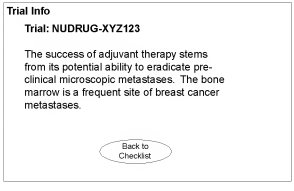


Figure 18 - QuickScreen: Trial Info #2

This screen will display a brief description of the trial selected by the user. The description may include a brief outline of some of the steps in the trial as well as details about what data the sponsor is looking for or what symptoms the drug addresses.

From this screen, the user may ONLY return to the Eligibility Checklist screen [3].

EXHIBIT L TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

PAGE 63 FROM THIRD NOTEBOOK OF MICHAEL KAHN

10 Jan 00

MMR
CBC
Luke Brennan
Brent Troyer
Paul Nadler

Site Boston Line
Sponsor Boston Line
Developers Boston Line

Content:
① 1.0, 1.5, 2.0 - what they mean
② Review stat of requirements summary document
③ Work thru list

Release 1.5 = "bears the weight"
1.0 = "initial shipping store" - mostly site assumptions
2.0 = "different beast"

Sponsor
Accrual simulation
Site selection
Incentivize site behavior
- via payments
Tracking metrics

EXHIBIT M TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

PROTOTYPE DEVELOPMENT SPREADSHEET, MARCH 13, 2000 - JUNE 23, 2000

ID	Task_Name	Duration	Start_Date	Finish_Date	Predecessors	Resource_Names
1	release 1.0a prime	70 d	3/13/2000 8:00	6/23/2000 17:00		
2	this is a modified 1.0a plan that also includes simple trial/visit QS	1 d	3/13/2000 8:00	3/13/2000 17:00		
3		1 d	3/13/2000 8:00	3/13/2000 17:00		
4	Dependencies	49 d	3/20/2000 17:00	5/26/2000 17:00		
5	finalize requirements/use cases	0 d	3/20/2000 17:00	3/20/2000 17:00		arian
6	AvantGo	1 d	4/14/2000 8:00	4/14/2000 17:00		AvantGo
7						
8	informatics	43 d	3/29/2000 8:00	5/26/2000 17:00		
9	Quickscreen and visit task	43 d	3/29/2000 8:00	5/26/2000 17:00		
10	define model tags and structure	1 d	3/29/2000 8:00	3/29/2000 17:00		mike kahn
11	protocol data(for unit testing)	1 d	5/3/2000 8:00	5/3/2000 17:00		mike kahn
12	final protocal data	1 d	5/26/2000 8:00	5/26/2000 17:00		mike kahn
13	final for beta	1 d	5/12/2000 8:00	5/12/2000 17:00		mike kahn
14						
15	development	53.75 d	3/13/2000 8:00	5/25/2000 15:00		
16	Infrastructure	40.75 d	3/13/2000 8:00	5/8/2000 15:00		
17	abstract entity bean framework	25.18 d	3/13/2000 8:00	4/17/2000 9:28		
18	design	1.25 d	3/13/2000 8:00	3/14/2000 10:00		allen[80%]
19	review/updates	1.25 d	3/14/2000 10:00	3/15/2000 12:00	18	phil[80%]
20	training	2.5 d	3/15/2000 13:00	3/17/2000 17:00	19	allen[80%]
21	code/unit test	7.5 d	4/5/2000 14:28	4/17/2000 9:28	61	phil[80%]
22						
23	jsp framework	5 d	3/13/2000 8:00	3/17/2000 17:00		
24	design	1.25 d	3/13/2000 8:00	3/14/2000 10:00		matt[80%]
25	review/updates	1.25 d	3/14/2000 10:00	3/15/2000 12:00	24	matt[80%]
26	code/unit test	2.5 d	3/15/2000 13:00	3/17/2000 17:00	25	matt[80%]
27						
28	security	38.25 d	3/15/2000 13:00	5/8/2000 15:00		
29	jsp	38.25 d	3/15/2000 13:00	5/8/2000 15:00		
30	modeling	8 d	3/15/2000 13:00	3/27/2000 12:00	25	john[50%]
31	Modeling/Reviewv Security Expertise	1 d	3/27/2000 13:00	3/28/2000 12:00	30	Security Architect
32	review/update	8 d	3/28/2000 13:00	4/7/2000 12:00	31	john[50%]
33	code/unit test	6.25 d	4/28/2000 13:00	5/8/2000 15:00	32,133	matt[80%]
34	data level	35.18 d	3/15/2000 13:00	5/3/2000 14:28		
35	modeling	8 d	3/15/2000 13:00	3/27/2000 12:00	19	john[50%]
36	Modeling/Review Security Expertise	1 d	3/27/2000 13:00	3/28/2000 12:00	35	Security Architect
37	review/update	8 d	3/28/2000 13:00	4/7/2000 12:00	36	john[50%]
38	code/unit test	6.25 d	4/25/2000 11:28	5/3/2000 14:28	37,136	sidharth[80%]
39	Business Processes	52.68 d	3/13/2000 8:00	5/24/2000 14:28		
40	use case work	7 d	3/21/2000 8:00	3/29/2000 17:00		
41	use case kick-off	1 d	3/21/2000 8:00	3/21/2000 17:00	5	phil,peter,kelly,mike
42	quickscreen use case	2 d	3/22/2000 8:00	3/23/2000 17:00	41	mike[80%]
43	quickscreen synch	2 d	3/22/2000 8:00	3/23/2000 17:00	41,26	matt[80%]
44	handheld login	2 d	3/22/2000 8:00	3/23/2000 17:00	41	phil[80%]
45	resynch	2 d	3/22/2000 8:00	3/23/2000 17:00	41	peter[80%]
46	protocol loader	2 d	3/22/2000 8:00	3/23/2000 17:00	41	kelly[80%]
47						
48	Task Visit Browse/View	4 d	3/24/2000 8:00	3/29/2000 17:00	41,42	mike[40%]
49						
50	use case reviews	6.25 d	3/24/2000 8:00	4/3/2000 10:00		
51	review with domain experts	2 d	3/24/2000 8:00	3/27/2000 17:00	42,43,44,45,46	phil[80%],mike[40%],matt[80%]
52	review with developers	0.68 d	3/28/2000 8:00	3/28/2000 14:28	51	phil[80%],mike[40%],matt[80%]
53						
54	review Task Visit Browse/View	1.25 d	3/30/2000 8:00	4/3/2000 10:00	48	mike[40%]
55						
56	Business Concept Model	6 d	3/28/2000 14:28	4/5/2000 14:28		
57	business concept model	5 d	3/28/2000 14:28	4/4/2000 14:28	52	phil[80%]
58	business concept model	2 d	3/28/2000 14:28	3/30/2000 14:28	52	mike[40%]
59	business concept model	1 d	4/3/2000 10:00	4/4/2000 10:00	54,58	mike[80%]
60	business concept model	5 d	3/28/2000 14:28	4/4/2000 14:28	52	peter[80%]
61	business concept model review	1 d	4/4/2000 14:28	4/5/2000 14:28	60,57,59	peter,phil,mike,kelly
62						
63	entity beans	18.75 d	4/5/2000 14:28	5/2/2000 11:28		
64	modeling	3.75 d	4/5/2000 14:28	4/11/2000 11:28	61	sidharth[80%]
65	review	1.25 d	4/11/2000 11:28	4/12/2000 14:28	64	sidharth[80%]
66	code/unit test	12.5 d	4/12/2000 14:28	5/1/2000 9:28	65,114	rick[80%]
67	code/unit test	5 d	4/24/2000 9:28	5/1/2000 9:28	65,125	phil[80%]
68	code review	1.25 d	5/1/2000 9:28	5/2/2000 11:28	66	rick[80%]
69						
70	ddl	3.75 d	4/14/2000 16:28	4/20/2000 14:28		
71	update	1.25 d	4/14/2000 16:28	4/18/2000 9:28	65,141	kelly[80%]

72	review	1.25 d	4/18/2000 9:28	4/19/2000 11:28	71	kelly[80%]
73	run	1.25 d	4/19/2000 11:28	4/20/2000 14:28	72	kelly[80%]
74						
75	Quickscreen	34.93 d	4/3/2000 10:00	5/22/2000 9:28		
76	design ui navigation	2.5 d	4/3/2000 10:00	4/5/2000 15:00	50,43	matt[80%]
77	ui (JSP)	4.13 d	4/5/2000 15:00	4/11/2000 16:00		
78	design	1 d	4/5/2000 15:00	4/6/2000 15:00	76,61	peter[80%],mike[80%]
79	review	0.63 d	4/6/2000 15:00	4/7/2000 11:00	78	peter[80%],mike[80%]
80	qa review	0.5 d	4/6/2000 15:00	4/7/2000 10:00	78	qa
81	code/unit test	2.5 d	4/7/2000 11:00	4/11/2000 16:00	80,79	peter[80%]
82	session beans	27.5 d	4/12/2000 14:28	5/22/2000 9:28		
83	design	1.25 d	4/12/2000 14:28	4/13/2000 16:28	76,65	sidharth[80%]
84	review	1.25 d	4/13/2000 16:28	4/17/2000 9:28	83	sidharth[80%]
85	code/unit test	3.75 d	5/2/2000 11:28	5/22/2000 9:28	84,68	rick[80%]
86	code unit test	1.25 d	4/17/2000 9:28	4/18/2000 11:28	84,81	peter[80%]
87						
88	Quickscreen synchronization	52.68 d	3/13/2000 8:00	5/24/2000 14:28		
89	design ui navigation	2.5 d	4/5/2000 15:00	4/10/2000 10:00	76,50	matt[80%]
90	investigation	6.25 d	3/13/2000 8:00	3/21/2000 10:00		
91	download new AvantGo	2.5 d	3/13/2000 8:00	3/15/2000 12:00		cris[80%]
92	testing	3.75 d	3/15/2000 13:00	3/21/2000 10:00	91	cris[80%]
93	ui (JSP)	6.56 d	4/10/2000 10:00	4/18/2000 15:30		
94	design	1.56 d	4/10/2000 10:00	4/11/2000 15:30	89	allen[80%]
95	review	1.25 d	4/11/2000 15:30	4/13/2000 8:30	94	allen[80%]
96	qa review	1 d	4/11/2000 15:30	4/12/2000 15:30	94	qa
97	code/unit test	3.75 d	4/13/2000 8:30	4/18/2000 15:30	96,95	allen[80%]
98	session beans	27.5 d	4/17/2000 9:28	5/24/2000 14:28		
99	design	1.25 d	4/17/2000 9:28	4/18/2000 11:28	89,84	sidharth[80%]
100	review	1.25 d	4/18/2000 11:28	4/19/2000 14:28	99	sidharth[80%]
101	code/unit test	2.5 d	5/22/2000 9:28	5/24/2000 14:28	100,85	rick[80%]
102	code unit test	2.5 d	4/19/2000 14:28	4/24/2000 9:28	100,86	peter[80%]
103		5 d	3/20/2000 8:00	3/24/2000 17:00		
104	Handheld Login and (User) Timeout	21.25 d	3/13/2000 8:00	4/11/2000 10:00		
105	investigation	8.75 d	3/13/2000 8:00	3/23/2000 15:00		
106	software evaluation / selection	1 d	3/13/2000 8:00	3/13/2000 17:00		cris[50%],AvantGo
107	testing	8.75 d	3/13/2000 8:00	3/23/2000 15:00		cris[80%]
108	design ui navigation	1 d	4/10/2000 10:00	4/11/2000 10:00	89	matt[80%]
109	HandHeld integration/development	7.63 d	3/23/2000 15:00	4/4/2000 11:00		
110	model / design	1.25 d	3/23/2000 15:00	3/24/2000 17:00	105	AvantGo
111	review	1.25 d	3/27/2000 8:00	3/28/2000 10:00	110	AvantGo
112	qa review	1 d	3/28/2000 10:00	3/29/2000 10:00	111	AvantGo
113	code/unit test	3.13 d	3/29/2000 10:00	4/3/2000 11:00	112	rick[80%]
114	delivery test	1 d	4/3/2000 11:00	4/4/2000 11:00	113	rick[80%]
115						
116	Resynchronization Timeout (Stale Data)	30.18 d	3/13/2000 8:00	4/24/2000 9:28		
117	investigation	6.25 d	3/13/2000 8:00	3/21/2000 10:00		
118	Evaluate options	2.5 d	3/13/2000 8:00	3/15/2000 12:00		cris[80%]
119	testing	3.75 d	3/15/2000 13:00	3/21/2000 10:00	118	cris[80%]
120	design ui navigation	3.75 d	4/11/2000 10:00	4/14/2000 17:00	108	matt[80%]
121	HandHeld integration/development	5 d	4/17/2000 9:28	4/24/2000 9:28		
122	design	1.25 d	4/17/2000 9:28	4/18/2000 11:28	95,21	phil[80%]
123	review	1.25 d	4/18/2000 11:28	4/19/2000 14:28	122	phil[80%]
124	qa review	1 d	4/19/2000 14:28	4/20/2000 14:28	123	qa
125	code/unit test	2.5 d	4/19/2000 14:28	4/24/2000 9:28	123	phil[80%]
126						
127	Task Visit Browse/View	16.43 d	4/17/2000 8:00	5/9/2000 11:28		
128	design ui navigation	2.5 d	4/17/2000 8:00	4/19/2000 12:00	120	matt[80%]
129	ui (JSP)	7 d	4/19/2000 13:00	4/28/2000 12:00		
130	design	2.5 d	4/19/2000 13:00	4/21/2000 17:00	128	matt[80%]
131	review	2 d	4/24/2000 8:00	4/25/2000 17:00	130	matt[40%]
132	qa review	2 d	4/24/2000 8:00	4/25/2000 17:00	130	matt[40%]
133	code/unit test	2.5 d	4/26/2000 8:00	4/28/2000 12:00	131,132	matt[80%]
134	session beans	13.75 d	4/19/2000 14:28	5/9/2000 11:28		
135	design	2.5 d	4/19/2000 14:28	4/24/2000 9:28	128,100	sidharth[80%]
136	review	1.25 d	4/24/2000 9:28	4/25/2000 11:28	135	sidharth[80%]
137	code unit test	10 d	4/25/2000 11:28	5/9/2000 11:28	136,102	peter[80%]
138						
139						
140	protocol loader	36.07 d	4/5/2000 14:28	5/25/2000 15:00		
141	protocol application model/design	6.25 d	4/5/2000 14:28	4/14/2000 16:28	61,10	kelly[80%]
142	review	1 d	4/14/2000 16:28	4/17/2000 16:28	141	qa
143	coding	11.25 d	5/4/2000 8:00	5/23/2000 10:00	141,142,73,111	kelly[80%]
144	unit test	2.5 d	5/23/2000 10:00	5/25/2000 15:00	143	kelly[80%]

145						
146	functional freeze	1 d	5/25/2000 15:00	5/26/2000 15:00	15	
147						
148	dev system test	5 d	5/29/2000 8:00	6/2/2000 17:00	146,12	
149	system test	5 d	5/29/2000 8:00	6/2/2000 17:00		sidharth[80%]
150	system test	5 d	5/29/2000 8:00	6/2/2000 17:00	33	matt[80%]
151	qa	2 d	5/29/2000 8:00	5/30/2000 17:00		qa[200%]
152						
153	qa	10 d	6/5/2000 8:00	6/23/2000 17:00	148	
154	bug fixing	10 d	6/5/2000 8:00	6/23/2000 17:00	148	matt[50%]
155	bug fixing	10 d	6/5/2000 8:00	6/23/2000 17:00	148	sidharth[25%]
156	bug fixing	10 d	6/5/2000 8:00	6/23/2000 17:00	101	rick[50%]
157						
158	qa release 1.0a	45.75 d	3/13/2000 8:00	5/15/2000 15:00		
159						
160	Dependencies	27.25 d	3/22/2000 13:00	4/28/2000 15:00		
161	finalized prd	1 d	3/22/2000 13:00	3/23/2000 12:00	169	arian
162	use cases	1 d	3/28/2000 10:00	3/29/2000 10:00	171	arian
163	hardware	1 d	4/27/2000 15:00	4/28/2000 15:00	181	sysa
164	testing tools	1 d	4/20/2000 15:00	4/21/2000 15:00	179	sysa
165						
166	process planning	6 d	3/13/2000 8:00	3/20/2000 17:00		jason,chris
167						
168	review cycle	9.75 d	3/21/2000 8:00	4/3/2000 15:00	166	
169	review prd	1.5 d	3/21/2000 8:00	3/22/2000 12:00		jason,chris
170	review protocal loader design	1.5 d	3/22/2000 13:00	3/23/2000 17:00	169	jason,chris
171	review use cases	2.25 d	3/24/2000 8:00	3/28/2000 10:00	170	jason,chris
172	review bus concept model	2.25 d	3/28/2000 10:00	3/30/2000 12:00	171	jason,chris
173	review qs user interface	2.25 d	3/30/2000 13:00	4/3/2000 15:00	172	jason,chris
174						
175	write/update test cases	7 d	4/3/2000 15:00	4/12/2000 15:00	168	jason,chris
176						
177	prepare test plan	2 d	4/12/2000 15:00	4/14/2000 15:00	175	jason,chris
178						
179	testing tools/reporting process	4 d	4/14/2000 15:00	4/20/2000 15:00	177	jason,chris
180						
181	setup test environment	5 d	4/20/2000 15:00	4/27/2000 15:00	179	jason,chris
182						
183	help with dev system test	2 d	4/27/2000 15:00	5/1/2000 15:00	181	jason,chris
184						
185	execute test plans	10 d	5/1/2000 15:00	5/15/2000 15:00	183	jason,chris
186						

EXHIBIT N TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

MONKEYmedia INVOICES

MONKEYmedia, inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Greg Ernst
(650) 572-8800 x18
via fax. (650) 572-8838

DATE: 7/21/2000

INVOICE #: FAST.022

DATE	DESCRIPTION	AMOUNT
July 21, 2000	Project Completion	20,000.00

Dept 20

OK to pay.

TOTAL $20,000.00

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Greg Ernst
(650) 572-8800 x18
via fax: (650) 572-8838

DATE: 6/28/2000

INVOICE #: FAST.021

DATE	DESCRIPTION	AMOUNT
June 5-30, 2000	Pro-rata Monthly retainer	80,000.00
	Credit against deposit #5	-26,667.00

TOTAL $53,333.00

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Greg Ernst
(650) 572-8800 x18
via fax: (650) 572-8838

DATE: 6/28/2000

INVOICE #: FAST.020

DATE	DESCRIPTION	AMOUNT
June 22, 2000	Reimbursable Expenses from April 1-June 22, 2000 (see attached breakout)	9,953.25

6208 200000

TOTAL $9,953.25

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

06/29/00

MONKEYmedia, Inc.
REIMBUSABLE EXPENSES FOR FastTrack
April through June 2000

DATE PAID	PAID TO	Memo	Amount
04/11/2000	Paulus Trisnadi	03/28/2000 Roy's Taxi	22.00
04/11/2000	Paulus Trisnadi	03/28/2000 Scholtzsky (dinner for flight to San Francisco)	5.35
04/11/2000	Paulus Trisnadi	03/29/2000 Wendy's (breakfast)	5.69
04/11/2000	Paulus Trisnadi	03/29/2000 Chinese (lunch)	6.44
04/13/2000	Freeman, Mark	03/30/00 Breakfast for Mark	3.56
04/13/2000	Freeman, Mark	03/30/00 Dinner for Mark	8.21
04/13/2000	Freeman, Mark	03/30/00 Lunch for Mark	8.95
04/11/2000	Paulus Trisnadi	03/30/2000 Golden Gate Toll Bridge	3.00
04/11/2000	Paulus Trisnadi	03/30/2000 Sam the Butcher (lunch)	6.84
04/11/2000	Paulus Trisnadi	03/30/2000 Yellow Checker Cab	33.00
04/11/2000	Sharon Knippa	03/30/2000 Yellow Checker Cab	25.00
04/19/2000	Zuni's	04/19/00 Dinner for Sharon, Paulus, & Mark during trip to FastTrack	116.13
04/11/2000	American Airlines	04/19/00 FastTrack meeting - Mark	613.00
04/11/2000	American Airlines	04/19/00 FastTrack meeting - Paulus	613.00
04/11/2000	American Airlines	04/19/00 FastTrack meeting - Sharon	613.00
04/19/2000	Holiday Inn Express	04/19/00 Lodging for FastTrack meeting - Mark	115.09
04/19/2000	Holiday Inn Express	04/19/00 Lodging for FastTrack meeting - Paulus	115.95
04/19/2000	Holiday Inn Express	04/19/00 Lodging for FastTrack meeting - Sharon	113.75
04/19/2000	Campus Cafe	04/19/00 Lunch for Sharon, Paulus, Mark during FastTrack trip	13.94
04/19/2000	Avis	04/19/00 Rental Car for FastTrack Meeting	150.72
04/19/2000	Super Shuttle	04/19/00 Shuttle to airport for FastTrack meeting - Sharon	30.00
05/31/2000	Freeman, Mark	04/19/00 Supershuttle to Airport	10.00
04/20/2000	The Good Earth Restr	04/20/00 Meal for Sharon, Mark, and Paulus during FastTrack Trip	29.84
04/26/2000	Sharon Knippa	04/20/00 Taxi Service for Fast Trip	20.00
04/26/2000	Paulus Trisnadi	04/20/2000 Roy's Taxi	33.00
04/14/2000	American Airlines	04/26/00 FastTrack Meeting - Mark	411.00
04/14/2000	American Airlines	04/26/00 FastTrack Meeting - Paulus	411.00
05/03/2000	Yellow Cab	05/03/00 cab for Sharon on return from FastTrack meeting	23.00
04/26/2000	American Airlines	05/03/00 FastTrack meeting - Mark Freeman	613.00
04/26/2000	American Airlines	05/03/00 FastTrack meeting - Paulus Trisnadi	613.00
04/26/2000	American Airlines	05/03/00 FastTrack meeting - Sharon Knippa	613.00
05/03/2000	Campus Cafe	05/03/00 Lunch for Sharon, Paulus, Mark during FastTrack trip	24.02
05/03/2000	Dollar Rental Car	05/03/00 rental car for Fast Track meeting	74.93
05/03/2000	Super Shuttle	05/03/00 Shuttle to airport for FastTrack meeting - Sharon	17.00
05/31/2000	Freeman, Mark	05/03/00 Taxi to Airport	23.00
05/11/2000	American Airlines	05/16/00 FastTrack meeting - Eric Gould	1,085.00
05/11/2000	American Airlines	05/16/00 FastTrack meeting - Mark Freeman	1,557.00
05/11/2000	American Airlines	05/16/00 FastTrack meeting - Paulus	1,557.00
05/31/2000	Freeman, Mark	05/17/00 Taxi to Airport	23.00
05/31/2000	Paulus Trisnadi	05/17/2000 Avis rental	94.11
05/31/2000	Paulus Trisnadi	05/17/2000 Gas	5.48
05/31/2000	Paulus Trisnadi	05/17/2000 Lunch for Mark and Paulus	16.27
05/31/2000	Paulus Trisnadi	05/17/2000 Yellow Checker	50.00
05/10/2000	Paulus Trisnadi	05/3/2000 Roy's Taxi	27.00
		TOTAL REIMBURSABLE EXPENSES	**9,953.26**

Page 1 of 1

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Greg Crisc
(650) 572-8800 x18
via fax: (650) 572-8838

DATE: 6/8/2000

INVOICE #: FAST.019

DATE	DESCRIPTION	AMOUNT
May 8 - June 2, 2000	Pro-rata Monthly retainer	80,000.00
	Credit against deposit #5	-26,667.00

TOTAL $53,333.00

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Greg Ernst
(650) 572-8800 x18
via fax: (650) 572-8838

DATE: 5/5/2000

INVOICE #: FAST.018

DATE	DESCRIPTION	AMOUNT
April 3 thru May 5, 2000	Pro-rata monthly retainer	80,000.00
	Credit against deposit #5	-26,667.00

TOTAL $53,333.00

P 2240 4000

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

5245201000
AC 2246000000

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Greg Ernst
(650) 572-8800 x18
via fax: (650) 572-8838

Pd + 20°
Ck 10 pm

DATE: 3/31/2000
INVOICE #: FAST.017

DATE	DESCRIPTION	AMOUNT
March 31, 2000	Reimbursable Expenses from January 1-March 31, 2000 (see attached breakout)	16,930.57

TOTAL $16,930.57

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

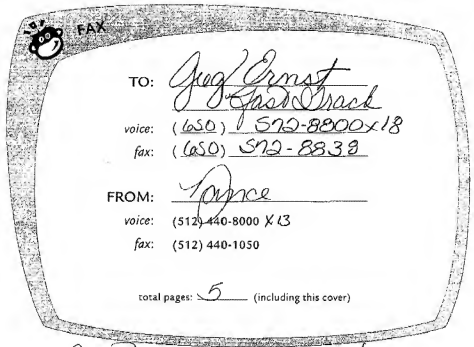
MONKEYmedia, Inc.
Reimbursable Expense for FastTrack
January through March 2000

Date	Name	Memo	Amount
01/10/2000	American Airlines	Airline Ticket for Eric Gould (1/13/00 trip)	605.00
01/10/2000	American Airlines	Airline Ticket for Emilia Crowell (1/13/00 trip)	605.00
01/10/2000	American Airlines	Airline Ticket for Mark Freeman (1/13/00 trip)	605.00
01/10/2000	American Airlines	Airline Ticket for Paulus Trisnadi (01/13/2K trip)	605.00
01/18/2000	American Airlines	Paulus, Mark and Emilia Trip on 1/19/2000	1815.00
01/20/2000	Emilia Crowell	Rental Car for 1/19/2000 meeting	42.18
01/27/2000	Eric J Gould	Rental Car on 1/13/2000	64.95
01/27/2000	Eric J Gould	Parking on 1/13/2000	6.00
02/11/2000	American Airlines	Airline Ticket for Paulus Trisnadi (02/15/2K trip)	1055.00
03/01/2000	Paulus Trisnadi	Cab fare (02/15/2K trip)	33.00
03/01/2000	Paulus Trisnadi	Dinner (02/15/2K trip)	11.00
03/01/2000	Paulus Trisnadi	Holiday Inn (02/15/2K trip)	153.95
03/01/2000	Paulus Trisnadi	Breakfast (02/15/2K trip)	9.62
03/01/2000	Paulus Trisnadi	Gas (02/15/2K trip)	9.30
03/01/2000	Paulus Trisnadi	Rental Car (02/15/2K trip)	199.82
03/01/2000	Paulus Trisnadi	Cab (02/15/2K trip)	33.00
03/16/2000	Paulus Trisnadi	Cab fare (03/15/2K trip)	33.00
03/16/2000	Paulus Trisnadi	Lunch (03/15/2K trip)	7.64
03/16/2000	Paulus Trisnadi	Dinner for Mark and Paulus (03/15/2K trip)	45.10
03/16/2000	Paulus Trisnadi	Westin San Francisco for Mark and Paulus (03/15/2K trip)	439.90
03/16/2000	Paulus Trisnadi	Break fast for Mark and Paulus (03/15/2K trip)	46.10
03/16/2000	Paulus Trisnadi	Lunch (03/15/2K trip)	7.89
03/16/2000	Paulus Trisnadi	Gas for Rental Car (03/15/2K trip)	8.78
03/16/2000	Paulus Trisnadi	Avis Rental Car (03/15/2K trip)	133.07
03/16/2000	Paulus Trisnadi	Taxi (03/15/2K trip)	33.00
03/23/2000	Courtyard Marriott	Lodging for Sharon Knippa	346.55
03/23/2000	Courtyard Marriott	Lodging for Paulus Trisnadi	347.73
03/23/2000	Courtyard Marriott	Lodging for Mark Freeman	346.95
03/21/2000	Schlotzsky's	Dinner for Eric (03/22/2K trip)	6.34
03/23/2000	Half Day Cafe	Breakfast for Eric, Sharon, Paulus, Mark F (03/22/2K trip)	49.90
03/23/2000	American Airlines	Airline Ticket for Paulus Trisnadi (03/24/2K trip)	1859.00
03/23/2000	American Airlines	Airline Ticket for Sharon Knippa (03/28/2K trip)	1859.00
03/23/2000	American Airlines	Airline Ticket for Mark Freeman (03/28/2K trip)	1859.00
03/26/2000	Freeman, Mark	Taxi (03/22-23/2K trip)	30.00
03/26/2000	Freeman, Mark	Taxi (03/22-23/2K trip)	25.00
03/26/2000	Freeman, Mark	Campus Cafe Lunch (03/22-23/2K trip)	8.75

MONKEYmedia, Inc.
Reimbursable Expense for FastTrack
January through March 2000

Date	Name	Memo	Amount
03/28/2000	Freeman, Mark	Taxi (03/22-23/2K trip)	22.00
03/28/2000	Freeman, Mark	Sam the Butcher (03/22-23/2K trip)	7.95
03/28/2000	Freeman, Mark	Sam the Butcher (03/22-23/2K trip)	6.95
03/28/2000	Freeman, Mark	HMSHost (03/22-23/2K trip)	2.13
03/28/2000	Knippa, Sharon D	Avis Rental (03/22-23/2K trip)	129.29
03/28/2000	Knippa, Sharon D	Half Day Cafe (breakfast for 3) (03/22-23/2K trip)	39.69
03/28/2000	Knippa, Sharon D	Chevron (gas) (03/22-23/2K trip)	6.38
03/28/2000	Knippa, Sharon D	Austin Cab Co. (03/22-23/2K trip)	15.00
03/28/2000	Knippa, Sharon D	Sam the Butcher (03/22-23/2K trip)	5.20
03/28/2000	Paulus Trinadi	Roy's Taxi (03/22-23/2K trip)	22.00
03/28/2000	Paulus Trinadi	Salt Lick BBQ (03/22-23/2K trip)	8.00
03/28/2000	Paulus Trinadi	Sam the Butcher (03/22-23/2K trip)	7.00
03/28/2000	Paulus Trinadi	Dinner for 3 @ Horizon (03/22-23/2K trip)	80.80
03/28/2000	Paulus Trinadi	Sam the Butcher (03/22-23/2K trip)	5.95
03/28/2000	Paulus Trinadi	Golden Gate Toll (03/22-23/2K trip)	3.00
03/28/2000	Paulus Trinadi	T4 Steak Dinner (03/22-23/2K trip)	7.90
03/28/2000	Paulus Trinadi	Roy's Taxi (03/22-23/2K trip)	34.00
03/30/2000	Eric J Gould	Toll on Golden Gate Bridge (cash) (03/22-23/2K trip)	3.00
03/30/2000	Eric J Gould	AA ticket for Sharon Knippa for 3/21-22 mtg	1083.00
03/30/2000	Eric J Gould	AA ticket for Paulus Trinadi for 3/21-22 mtg	1083.00
03/30/2000	Eric J Gould	AA ticket for Mark Freeman for 3/21-22 mtg	1083.00
AL			10,930.57

MONKEYmedia



Copy of receipts to follow next week

MONKEYmedia · 611 South Congress Avenue, Ste 310 · Austin, TX 78704 · www.monkey.com

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Greg Ernst
(650) 572-8800 x18
via fax: (650) 572-8838

DATE: 3/31/2000

INVOICE #: FAST.0016

DATE	DESCRIPTION	AMOUNT
February 16-29, 2000	Pro-Rata monthly retainer	39,000.00
March 1-31, 2000	Pro-Rata monthly retainer	80,000.00
	Credit against deposit #4	-13,000.00
	Credit against deposit #5	-26,667.00

TOTAL $79,333.00

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
Attn: Greg Ernst
(650) 572-8800 x118
Via fax: (650) 572-8838

DATE: 2/28/2000

INVOICE #: FAST.013a

DATE	DESCRIPTION	AMOUNT
January 1, 2000 - February 15, 2000	Pro-rata monthly retainer	117,000
	Credit against deposit	-39,000 ok 1/07
	TOTAL	**$ 78,000**

Sophia - Please verify that this has not already been paid. If not, OK to pay.

Greg

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADRESS

Tax Payer ID #74-2899535

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE: 2/9/2000
INVOICE #: FAST.015

DATE	DESCRIPTION	AMOUNT
February 8, 2000	Retainer for Project Assignment #5	106,000.00

OK to pay,
Michael Mischke-Reed
2/23/00

TOTAL $106,000.00

* 127.000
(5%-6000)

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

ATTACHMENT A

MONKEYMEDIA PROJECT ASSIGNMENT #5
(Product Suite)

PROJECT START DATE
March 1, 2000

ESTIMATED END DATE
June 30, 2000

This Project Assignment is an attachment to the Design & Development Agreement between FastTrack Systems and MONKEYmedia, Inc. effective June 1, 1999.

WORK SCOPE

In collaboration with FastTrack Systems, MONKEYmedia will provide usability analysis, interactive concepting, prototype development, interface design, and product development for FastTrack's clinical trials software suite. Based on prototypes produced by MONKEYmedia under Project Assignments #1, #2, and #3 as well as contextual inquiry performed by FastTrack prior to or concurrent with Project Assignment #4, MONKEYmedia will provide task usability analysis, functional design, product specification, prototype production, usability testing, and product front-end development. Specific areas of expertise and added value MONKEYmedia may bring to the overall design process include:

- User assessment & target audience interviews
- Task / flow analysis & contextual inquiry
- Evaluation of prior art and refinement of new integrated and scalable models
- Thorough design documentation & design-to-production & engineering mentoring support
- Architectural maps, storyboards, and layout sketches
- Screen visualizations, graphic/aural treatments, and mock-ups
- Development of templates, guidelines, interactive prototypes, & final product software
- Coordination of focus groups, user testing, & audience response studies
- Other process refinements

MONKEYmedia's team will work closely with Michael Mischke-Reeds, FastTrack, and FastTrack vendors to ensure that we collectively maintain a consistent and compatible vision; coordinating technical feasibility issues with marketing requirements and usability needs in a manner both timely and cost effective.

MILESTONES & DELIVERABLES

Following are rough initial milestones and deliverables. Note that timely and accurate completion of these deliverables depends heavily upon both Mischke-Reeds', FastTrack's, and FastTrack vendors' participation -- we expect FastTrack and Ciraolo-Budds Consulting to together provide marketing and usage requirements; Concept 5 to provide use case models, back-end server code, synchronization code, and code for certain front-end functionality, and MONKEYmedia to provide navigational architecture maps, functional specifications, and produce front-end GUI design guidelines and screen templates.

ESTIMATED DEVELOPMENT SCHEDULE (tans refined and frozen product requirements from FastTrack)

1.	Version 1.0 Functional Specification	January 20 - March 7, 2000
2.	Version 1.0 Interface Production	February 28 - April 10, 2000
3.	Version 1.0 Usability Testing	March 15 - April 17, 2000
4.	Version 1.5 Functional Specification	February 28 - May 10, 2000
5.	Version 1.5 Interface Production	May 11 - August 1, 2000
6.	Version 1.5 Usability Testing	July 17 - August 8, 2000

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE: 12/24/1999

INVOICE #: FAST.012

DATE	DESCRIPTION		AMOUNT
December 24, 1999	Design Analysis & Feasibilty Testing		
	Paulus Trisnadi - 145 hours @ $125		18,125.00
	Mark Freeman - 183 hours @ $125		22,875.00
	Eric Gould - 70 hours @ $200		14,000.00
	SUBTOTAL	$55,000.00	
	Credit for Remaining Retainer Fee		-16,321.00
	TOTAL		**$38,679.00**

OK to pay.

DUE UPON RECEIPT.
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

5205-200

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE: 12/22/1999

INVOICE #: FAST.011

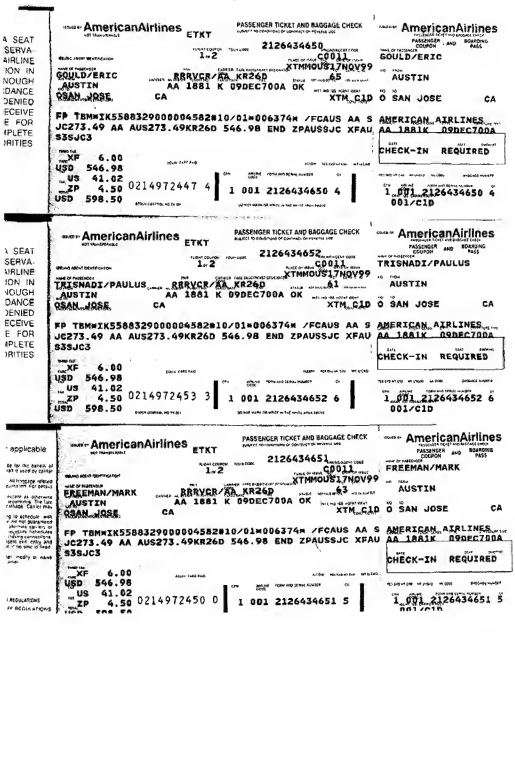
DATE	DESCRIPTION		AMOUNT
December 21, 1999	Reimbursable Expenses for SPEED		
	TRAVEL		3,195.32
	12/09/99 American Airlines for Paulus Trisnadi	$598.59	
	12/09/99 American Airlines for Mark Freeman	$598.59	
	12/09/99 Avis Rental	$ 73.90	
	12/09/99 Chevron Gas	$ 2.19	
	12/09/99 Roy's Taxi	$ 16.00	
	12/17/99 American Airlines for Eric Gould	$598.59	
	12/17/99 American Airlines for Paulus Trisnadi	$598.59	
	12/17/99 American Airlines for Mark Freeman	$598.59	
	12/17/99 Austin Bergstrom Airport Parking	$18.00	
	12/17/99 Avis Rental	$ 92.28	
	TOTAL		$3,195.32

Ok to pay,

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

52 # 5 - 2473



AmericanAirlines ETKT PASSENGER TICKET AND BAGGAGE CHECK AmericanAirlines

2126434650

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CHECK-IN REQUIRED

XF 6.00

USD 546.98

US 41.02

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US 41.02

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FREEMAN/MARK

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FREEMAN/MARK AUSTIN

RRRVCR/AA KR26D 63 AUSTIN

AUSTIN SAN JOSE

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001/C1D

ROY'S TAXI, INC.
482-0000
SINCE 1931

CASH RECEIPT

CAB # 117 DATE 12/10/99

FARE $ $16

DRIVER'S NAME

TRIP FROM Airport

TO

"WE APPRECIATE YOUR BUSINESS"

AVIS. We try harder®

TRANSACTION RECORD

RENTAL NUMBER CAR NUMBER CAR GROUP

160283966 6015295 W
TRISNAD1.P
WIZ= P6A617 AWD= L307238
CV CM541117624B613549

FTN# AD39CK966 3A
OUT SJC 09DEC99/0902 MI-13401
IN SJC 09DEC99/1709 MI-134/3
72 MI@ .35=

8 HR@ 19.67=
DY@ 59.00=
MINIMUM CHARGE - 59.00
DISCOUNT .0 =
ONE WAY FEE/MISC=
FUEL SERVICE =
TAXABLE SUBTOT - 59.00

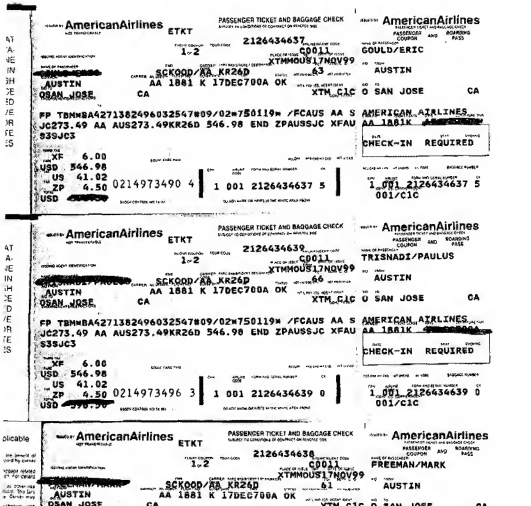
TAX 8.250% - 4.87
**VLF FEE - 1.08
LDW -
PAI/PEP/ALI CNG - 8.95
TOTAL CHARGES - 73.90
**VEH LICENSE FEE$1.08/DY

Thank you for renting from Avis.
We value your business. Have a safe trip.

CHEVRON
12/05/99 16.00
LAURELWOOD CHEVRON
1350 WILLOWDALE BL.
SAN MATEO CA
STN 00095716
VISA
XXXXXXXXXXXX3081

Invoice 1620238
Auth 866734
Pump # 6
1.336 G @ $ 1.619
Regular Self $ 2.16
Total $ 2.16

NEW TOY CARS
ARE AVAILABLE INSIDE



PASSENGER TICKET AND BAGGAGE CHECK

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PASSENGER TICKET AND BAGGAGE CHECK

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PASSENGER TICKET AND BAGGAGE CHECK

AmericanAmericanAirlines

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AMERICAN AIRLINES

AA 1881K

CHECK-IN REQUIRED

XF 6.00

USD 546.98

US 41.02

ZP 4.50 0214973493 0

1 001 2126434638 6

001/C1C

We try harder®

TRANSACTION RECORD

RENTAL NUMBER CAR NUMBER CAR GROUP

160341086 6040871 W
GOULD,ERIC
WIZ= EQ528T AWD= L307230
CV CX427138Z496032547

FTN# AD39CK966 3A
OUT SJC 17DEC99/0856 MI-13656
IN SJC 17DEC99/1615 MI-13767
111 MI@ .35=

7 HR@ 19.67=
DY@ 59.00=
MINIMUM CHARGE = 59.00
DISCOUNT -0 =
ONE WAY FEE/MISC=
FUEL SERVICE = 25.25
TAXABLE SUBTOT = 84.25

TAX 8.250% = 6.95
**VLF FEE = 1.08
LDW =
TOTAL CHARGES = 92.28
**VEH LICENSE FEE$1.08/DY

Thank you for renting from Avis.
We value your business. Have a safe trip.

AUSTIN BERGSTROM
INTERNATIONAL AIRPORT
Card Account # : 427138Z496032547
Card Expiration Date : 08/02
Card Type : VISA
Authorization Code : 238408
Bank Sequence Number : 00000227

Entrance. 08:18 12/17/99 Lane # 03
Exit : 22:38 12/17/99 Lane # 98
Length of stay: 0 d. 18 h. 23 mn.
License Plate : TX VHR27V
Cashier: 157 Shift: 0075 SEQ# 14520

Transaction Amount: $ 18.00

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE: 12/10/1999

INVOICE #: FAST.010

DATE	DESCRIPTION	AMOUNT
December 10, 1999	Retainer for Project Assignment #4	52,000.00

OK to pay

TOTAL $52,000.00

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

1275-100 Payment Mgmt
Q1 2000 Initiative

Tax Payer ID #74-2899535

ATTACHMENT A
MONKEYMEDIA PROJECT ASSIGNMENT #4
(Product Suite)

PROJECT START DATE
January 1, 2000

ESTIMATED END DATE
March 1, 2000

This Project Assignment is an attachment to the Design & Development Agreement between FastTrack Systems and MONKEYmedia, Inc. effective June 1, 1999.

WORK SCOPE
In collaboration with FastTrack Systems, MONKEYmedia will provide usability analysis, interactive concepting, prototype development, interface design, and product development for FastTrack's clinical trials software suite. Based on prototypes produced by MONKEYmedia under Project Assignments #1, #2, and #3 as well as contextual inquiry performed by FastTrack prior to or concurrent with this Project Assignment #4, MONKEYmedia will provide task usability analysis, functional design, product specification, prototype production, usability testing, and product front-end development. Specific areas of expertise and added value MONKEYmedia may bring to the overall design process include:

- User assessment & target audience interviews
- Task / flow analysis & contextual inquiry
- Evaluation of prior art and refinement of new integrated and scalable models
- Thorough design documentation & design-to-production & engineering mentoring support
- Architectural maps, storyboards, and layout sketches
- Screen visualizations, graphic/aural treatments, and mock-ups
- Development of templates, guidelines, interactive prototypes, & final product software
- Coordination of focus groups, user testing, & audience response studies
- Other process refinements

MONKEYmedia's team will work closely with Michael Mischke-Reeds, FastTrack, and FastTrack vendors to ensure that we collectively maintain a consistent and compatible vision; coordinating technical feasibility issues with marketing requirements and usability needs in a manner both timely and cost effective.

MILESTONES & DELIVERABLES
Following are rough initial milestones and deliverables. Note that timely and accurate completion of these deliverables depends heavily upon both Mischke-Reeds', FastTrack's, and FastTrack vendors' participation -- we expect FastTrack and Cetaslo-Budds Consulting to together provide marketing and usage requirements; Concept 5 to provide use case models, back-end server code, synchronization code, and code for certain front-end functionality; and MONKEYmedia to provide navigational architecture maps, functional specifications, and produce front-end GUI design guidelines and screen templates.

ESTIMATED DEVELOPMENT SCHEDULE

1. Revision "0.5" Development — late February, 2000
(bare minimum functionality to begin entering information)
   - Authoring tools
   - Site Setup
   - Trial Setup

2. Revision "1.0" Development — March, 2000
   - Handheld Task Management
   - Handheld Accrual (w/out patient identifiers or persistence)
   - Clinical Coordinator Dashboard
   - Sponsor Dashboard

MONKEYMEDIA/FASTTRACK PROJECT ASSIGNMENT #3 (cont'd)

COMPENSATION

Based on our initial understanding of program needs, we estimated the project to cost at least $156,000. Due to open business decisions, as well as the broad scale of and loosely defined program requirements, however, MONKEYmedia cannot commit to that dollar amount without fully engaging a research and analysis phase to better define the scope of the remainder of the program. And as this Project Assignment does not contemplate such an exploratory phase, FastTrack and MONKEYmedia will communicate regularly to refine an estimated schedule and budget over the course of the work.

Hourly rates payable by FastTrack Systems under this Project Assignment for the following types of personnel (and the initially estimated time to be expended by such personnel under this Project Assignment) shall be as follows:

TITLE / ROLE	HRLY RATE	MIN. ALLOC.	DURATION	MIN FEES
Sr. Creative Dir. (E. Gould)	$ 300	0.85 FTE	1 (of 2) Months	$ 60,000
Sr. Interface Design & Coord.	$ 200			
Interface Design & Doc.	$ 150	2.00 FTE	1 (of 2) Months	$ 96,000
Interface Eng. & Production	$ 150			

MONKEYmedia shall use commercially reasonable efforts to make available personnel in the categories and for the approximate time requirements set forth in the preceding table, provided that MONKEYmedia shall have no obligation to make such personnel available in the event that FastTrack has not provided to MONKEYmedia any funds or materials required in connection with this Project Assignment or is otherwise in default under the Agreement.

FastTrack and MONKEYmedia will closely monitor and hone the collaboration to ensure success, providing a concrete checkpoint after completion of the Functional Specification to refine and concretize an estimated schedule, budget, milestones and deliverables for the completion of each deployment revision.

FastTrack shall deliver to MONKEYmedia, simultaneously with the execution of this Project Assignment, an initial payment of 1/3 of minimum fees in the sum of Fifty Two Thousand and No/100 Dollars ($52,000.00) (the "Deposit"). Subsequently, MONKEYmedia will invoice FastTrack for fees and expenses for this project, crediting 1/3 of such fees against the outstanding balance of that deposit.

EXPENSES

MONKEYmedia shall be reimbursed for all out-of-pocket travel and production expenses incurred in connection with the performance of services under this Project Assignment, including but not limited to airfare, car, hotel, dining, freight, copying charges, electronic media, books, software, hardware, and telecommunications / networking.

OTHER TERMS

MONKEYmedia's ability to meet specific milestones may be dependent upon delivery to MONKEYmedia of certain information, media, equipment, references, and support. MONKEYmedia shall not be held responsible for either deliverables dependent upon such support or refunds of prepayment towards such deliverables if FastTrack, FastTrack's representatives, or any of FastTrack's vendors or associates fail to deliver that support in a timely manner.

MONKEYMEDIA, INC.	FASTTRACK SYSTEMS
By 12-18-1999	By 12/15/99
Date	Date
ERIC JUSTIN GOULD, C.E.O.	VP, Technology
Printed Name & Title	Printed Name & Title

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE 11/24/1999

INVOICE #: FAST.009

DATE	DESCRIPTION	AMOUNT
Sept. 22 - Nov 19, 1999	Design Analysis & Fessibilty Testing	
	Paulus Trisnadi - 247 hours @ $125	31,078.00
	Mark Freeman - 243 hours @ $125	30,375.00
	Nick West - 2 hour @ $200	400.00
	Eric Gould - 148 hours @ $200	29,600.00
	Credit Against Retainer Fee	-30,179.00
	TOTAL	$61,274.00

91,453.00

OK to pay,

DUE UPON RECEIPT.
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

5205-200

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE: 12/1/1999

INVOICE #: FAST.008

DATE	DESCRIPTION		AMOUNT
November 24, 1999	Reimbursable Expenses for SPEED		
	TRAVEL		3,704.76
	11/02/99 American Airlines for Eric Gould	$598.59	
	11/02/99 American Airlines for Paulus Trisnadi	$598.59	
	11/02/99 American Airlines for Mark Freeman	$598.59	
	11/2/99 Austin Bergstrom Airport Parking	$6.00	
	11/16/99 American Airlines for Eric Gould	$598.59	
	11/16/99 American Airlines for Paulus Trisnadi	$598.59	
	11/16/99 American Airlines for Mark Freeman	$598.59	
	11/9/99 Austin Bergstrom Airport Parking	$3.00	
	11/16/99 Hertz Rental	$ 86.76	
	11/16/99 Austin Bergstrom Airport Parking	$ 18.00	

Ok to pay,
Mischke

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

TOTAL $3,704.76

Tax Payer ID #74-2899535

5205-200

AUSTIN L ..STROM
INTERNATIONAL AIRPORT
Card Account # : 558832000019 1024
Card Expiration Date : 10/01
Card Type : MASTER CARD
Authorization Code : 004426
Bank Sequence Number : 00001329

Entrance: 22:45 11/01/99 Lane # 00
Exit : 22:45 11/02/99 Lane # 43
Length of stay: 1 d. 00 h. 00 mn.
License Plate : TX LTG85F
Cashier: 150 Shift: 0232 SEQ# 24074

Transaction Amount: $ 8.00

SAN JOSE AIRPORT
RENTAL RECORD: 200815463
DRIVE GENAL
COMPLETED BY 6366
RENTED: SAN JOSE AIRPORT
RENTAL: 11/16/99 09:39
RETURN: 11/16/99 16:28
MILES IN: 02221 OUT: 02151
MILES DRIVEN: 70
PLAN W/OUT HOLD HOLD
CLS L

1 DAYS	69.99	69.99
SUBTOTAL		69.99
FL & SJC HI @ 220		9.16
TX @ 220X ON	79.15	8.53
VEH LIC FEE		1.08
NET DUE		88.76

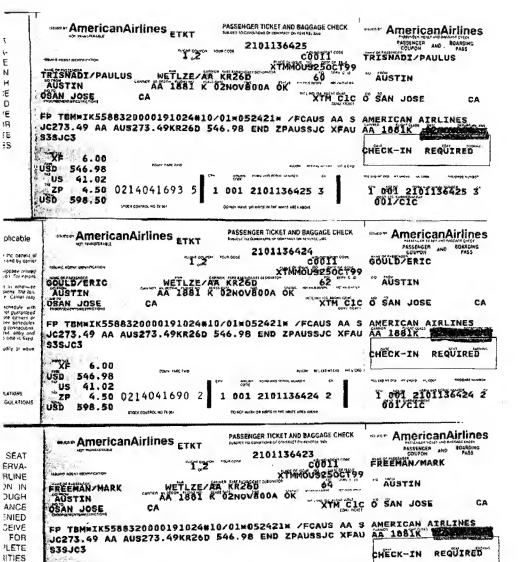
PAID BY MC
CREDIT CARD #: XXXXXXXXXXXX1024

Thank you for renting from
Hertz

AUSTIN BERGSTROM
INTERNATIONAL AIRPORT
Card Account # : 558832000019 1024
Card Expiration Date : 10/01
Card Type : MASTER CARD
Authorization Code : 053332
Bank Sequence Number : 00000735

Entrance: 07:22 11/16/99 Lane # 01
Exit : 23:07 11/16/99 Lane # 52
Length of stay: 0 d. 15 h. 45 mn.
License Plate : TX VAR27V
Cashier: 150 Shift: 0212 SEQ# 34006

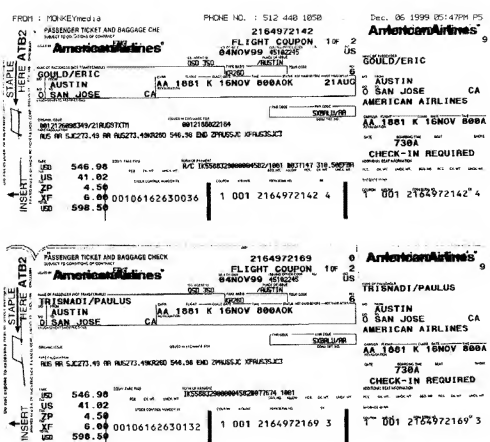
Transaction Amount: $ 16.00



AmericanAirlines ETKT
PASSENGER TICKET AND BAGGAGE CHECK
2101136425
TRISNADI/PAULUS
WETLZE/AA KR26D
AA 1881 K 02NOV800A OK
AUSTIN
OSAN JOSE CA
XTMMOUS2SOCT99
60
AUSTIN
XTM C1C O SAN JOSE CA
FP TBMMIK558832000019102 4m10/01m052421m /FCAUS AA S JC273.49 AA AUS273.49KR26D 546.98 END ZPAUSSJC XFAU S33SJC3
AA 1881K
CHECK-IN REQUIRED
XF 6.00
USD 546.98
US 41.02
ZP 4.50 0214041693 5
1 001 2101136425 3
USD 598.50
001/C1C

AmericanAirlines ETKT
PASSENGER TICKET AND BAGGAGE CHECK
2101136424
GOULD/ERIC
WETLZE/AA KR26D
AA 1881 K 02NOV800A OK
AUSTIN
OSAN JOSE CA
C0011
XTMMOUS2SOCT99
62
AUSTIN
XTM C1C O SAN JOSE CA
FP TBMMIK558832000019102 4m10/01m052421m /FCAUS AA S JC273.49 AA AUS273.49KR26D 546.98 END ZPAUSSJC XFAU S33SJC3
AA 1881K
CHECK-IN REQUIRED
XF 6.00
USD 546.98
US 41.02
ZP 4.50 0214041690 2
1 001 2101136424 2
USD 598.50
001/C1C

AmericanAirlines ETKT
PASSENGER TICKET AND BAGGAGE CHECK
2101136423
FREEMAN/MARK
WETLZE/AA KR26D
AA 1881 K 02NOV800A OK
AUSTIN
OSAN JOSE CA
C0011
XTMMOUS2SOCT99
64
AUSTIN
XTM C1C O SAN JOSE CA
FP TBMMIK558832000019102 4m10/01m052421m /FCAUS AA S JC273.49 AA AUS273.49KR26D 546.98 END ZPAUSSJC XFAU S33SJC3
AA 1881K
CHECK-IN REQUIRED
XF 6.00
USD 546.98
US 41.02
ZP 4.50 0214041687 6
1 001 2101136423 1
001/C1C



FROM : MONKEYmedia PHONE NO. : 512 448 1058 Dec. 06 1999 05:47PM P5

PASSENGER TICKET AND BAGGAGE CHE
2164972142
FLIGHT COUPON 1 OF 2
04NOV99 45182245
DSO 350 /AUSTIN
GOULD/ERIC
AUSTIN
SAN JOSE
AA 1881 K 16NOV 800AOK 21AUG
CA
AMERICAN AIRLINES
AA 1881 K 16NOV 800A
730A
CHECK-IN REQUIRED
001216862630036
1 001 2164972142 4
USD 546.98
US 41.02
ZP 4.50
XF 6.00
USD 598.50

PASSENGER TICKET AND BAGGAGE CHECK
2164972169
FLIGHT COUPON 1 OF 2
04NOV99 45182245
DSO 350 /AUSTIN
THISNADI/PAULUS
AUSTIN
SAN JOSE
AA 1881 K 16NOV 800AOK
CA
AMERICAN AIRLINES
AA 1881 K 16NOV 800A
730A
CHECK-IN REQUIRED
001216862630132
1 001 2164972169 3
USD 546.98
US 41.02
ZP 4.50
XF 6.00
USD 598.50

PASSENGER TICKET AND BAGGAGE CHECK
2164972167
FLIGHT COUPON 1 OF 2
04NOV99 45182245
DSO 350 /AUSTIN
FREEMAN/MARK
AUSTIN
SAN JOSE
AA 1881 K 16NOV 800AOK
CA
AMERICAN AIRLINES
AA 1881 K 16NOV 800A
730A
CHECK-IN REQUIRED
1 001 2164972167 1
USD 546.98
US 41.02
ZP 4.50
XF 6.00
USD 598.50

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack Systems
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE: 10/13/1999

INVOICE #: FAST.007

DATE	DESCRIPTION		AMOUNT
October 13, 1999	Reimbursable Expenses for SPEED		
	TRAVEL		2,497.38
	10/4/99 American Airlines for Eric Gould	$804.81	
	10/4/99 American Airlines for Paulus Trisnadi	$804.81	
	10/4/99 American Airlines for Mark Freeman	$804.81	
	10/4/99 Avis Rental	$64.95	
	10/4/99 Austin Bergstorm Airport Parking	$18.00	
	MEALS		164.31
	10/4/99 Austin Bergstorm Airport	$5.86	
	10/4/99 Campus Cafe (EG & MMR)	$12.23	
	10/4/99 Campus Cafe (PT & MF)	$15.92	
	10/11/99 El Sol Y La Luna (Lunch with CBC)	$42.26	
	10/11/99 The Bitter End (Dinner with CBC)	$88.04	

Ok to pay,
[signature]

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

TOTAL $2,661.69

Tax Payer ID #74-2899535

5205 - 200

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

10/1/99

DATE: 9/22/1999

INVOICE #: FAST.006

DATE	DESCRIPTION	AMOUNT
September 21, 1999	Site & Sponsor Demo's (Clio & Palm)	
	Donald McCaskill - 11 hours @ $125	1,375.00
	Mark Freeman - 32.5 hours @ $125	4,062.50
	Paulus Trisnadi - 88.5 Hours @ $125	11,062.50

TOTAL $16,500.00

- 1/3 Cred. I 5,500.00
$11,000.00

OK to pay $11,000

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

5205-000

ISSUED BY AmericanAirlines NOT TRANSFERABLE ETKT PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS OF CONTRACT ON REVERSE SIDE

2100730153

PASSENGER COUPON AND BOARDING PASS

1 of 2

CD01A

TRISNADI/PAULUS

TNLZSD/AA H26 XTMMOUS26SEP99 65

AUSTIN

AA 1881 H 04OCT800A OK

OSAN JOSE CA XTM C2C O SAN JOSE CA

FP TBM*BA427138249603254 7*09/99*950757* /FCAUS AA S JC466.67H26 AA AUS272.22WR26D 738.89 END ZPAUS2.25S JC2.25 XFAUS3SJC3

AMERICAN AIRLINES AA 1881H 04OCT800A

CHECK-IN REQUIRED

XF 6.00

USD 738.89

US 55.42

ZP 4.50 0211785480 4

USD 804.81

1 001 2100730153 4

1 001 2100730153 4 001/C2C

ISSUED BY AmericanAirlines NOT TRANSFERABLE ETKT PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS OF CONTRACT ON REVERSE SIDE

2100730154

PASSENGER COUPON AND BOARDING PASS

1 of 2

CD01I

FREEMAN/MARK

TNLZSD/AA H26 XTMMOUS26SEP99 63

AUSTIN

AA 1881 H 04OCT800A OK

OSAN JOSE CA XTM C2C O SAN JOSE CA

FP TBM*BA427138249603254 7*09/99*950757* /FCAUS AA S JC466.67H26 AA AUS272.22WR26D 738.89 END ZPAUS2.25S JC2.25 XFAUS3SJC3

AMERICAN AIRLINES AA 1881H 04OCT800A

CHECK-IN REQUIRED

XF 6.00

USD 738.89

US 55.42

ZP 4.50 0211785483 0

USD 804.81

1 001 2100730154 5

1 001 2100730154 5 001/C2C

ISSUED BY AmericanAirlines NOT TRANSFERABLE ETKT PASSENGER TICKET AND BAGGAGE CHECK SUBJECT TO CONDITIONS OF CONTRACT ON REVERSE SIDE

2100715392

PASSENGER COUPON AND BOARDING PASS

1 of 2

CD01I

GOULD/ERIC

QIRAIA/AA H26 XTMMOUS26SEP99 61

AUSTIN

AA 1881 H 04OCT800A OK

GOULD/ERIC CA XTM C2C O SAN JOSE

OSAN JOSE CA

FP TBM*BA427138249603254 7*09/99*447553* /FCAUS AA S JC466.67H26 AA AUS272.22WR26D 738.89 END ZPAUS2.25S JC2.25 XFAUS3SJC3

AMERICAN AIRLINES AA 1881H 04OCT80

CHECK-IN REQUIRE

XF 6.00

USD 738.89

US 55.42

ZP 4.50 0211963562 6

USD 804.81

1 001 2100715392 6

1 001 2100715392 001/C2C

FROM : MONKEYmedia PHONE NO. : 512 440 1058 Oct. 21 1999 04:19PM P5

CA ONE SERVICES INC.
AUSTIN-BERGSTROM INTL. AIRPORT
MATT'S EL RANCHO

1099 JESSICA

81 60 ON OCTO4'99 6:16AM

1 Lg Bottle	1.85
1 Egg & Potatoes	3.10
Subtotal	4.95
Charge Tip	0.50
Total Tax	0.41
Total Paid.....	5.86
CHARGE TIP	0.50
427138249&032547	09/02
ERIC J GOULD	
VISA	5.86

PROVIDING CARE AND COMFORT
TO PEOPLE AWAY FROM HOME

Your order number is: 8160

10-04-99

3 *1.99
3 *1.99
3 *1.99
2 *6.50
1 *3.95

2 *1.50
6 Q
*15.92 N
12- 7.x
7040 15%

AVIS. We try harder

TRANSACTION RECORD

RENTAL NUMBER CAR NUMBER CAR GROUP

7867478D2 6043973 W
GOULD,ERIC
WI2= E0528T AWD= L307238
CV CX427138Z496032547

FTN# A039CK966 3A
OUT SJC 040CT99/1022 MI- 9274
IN SJC 040CT99/1633 MI- 9345
71 MI@ .35=

6 HR@ 19.67=
DY@ 59.00=
MINIMUM CHARGE = 59.00
DISCOUNT .0 =
ONE WAY FEE/MISC=
FUEL SERVICE =
TAXABLE SUBTOT = 59.00

TAX 8.250% = 4.87
**VLF FEE = 1.08
LDW = [illegible]
TOTAL CHARGES = 64.95
**VEH LICENSE FEE$1.087DY

Thank you for renting from Avis
We value your business. Have a safe trip

AUSTIN BERGSTROM
INTERNATIONAL AIRPORT
Card Account # : 427138249&032547
Card Expiration Date : 08/02
Card Type : VISA
Authorization Code : 967858
Bank Sequence Number : 00000168

Entrance: 07:02 10/04/99 Lane # 04
Exit : 22:35 [illegible] Lane # 50
License Plate : TX VHR2YV
Cashier: 183 Shift: 0222 SEQ# 40572

Transaction Amount: $ [illegible]

Received: 10/21/99 2:05PM; 512 440 1050 -> AVANTGO; Page 6

FROM : MONKEYmedia PHONE NO. : 512 440 1050 Oct. 21 1999 04:19PM P6

Fast Track

THE BITTER END
BISTRO AND BREWERY
311 Colorado Street
Austin, TX 78701
512-478-2337

Server: HOLLY DOB: 10/11/99
07:59 PM 10/11/99
Table 80/1 6/21

VISA 6291477
Card #4271382496032547 Exp:0902
Magnetic card present: goulderic
j
Approval: 052856

Amount: 73.04
+ Tip: 15
= Total: 88.94

X
Approval: 052856

OUR KITCHEN STAYS OPEN LATE!
SUN-THURS UNTIL MIDNIGHT
FRI & SAT UNTIL 1:00a.m
VISIT THE BITTER END B-SIDE
LOUNGE

Customer Copy

Fast Track

4301322135102511
CAMPUS CAFE
2955 CAMPUS DRIVE
SAN MATEO, CA 94403
(650) 573-1800

10/04/99 11:20:31 0

PURCHASE

ACCOUNT NUMBER	EXP.
4271382496032547	0902

TRAN CODE	AUTH.	REF #
20	259854	001605

AMOUNT $ [illegible]

DESC.

X

I AGREE TO PAY ABOVE TOTAL AMOUNT
ACCORDING TO CARD ISSUER AGREEMENT
(MERCHANT AGREEMENT IF CREDIT VOUCHER)

EL SOL Y LA LUNA
[illegible] SOUTH CONGRESS AVE
AUSTIN TX 78704

TIME [illegible] PM DATE 10/11/99
TERM# 00321546 MER# [illegible]
TRAN TYPE SALE
#4600036901943001
CARD TYPE VISA
EXP DATE 10/00 SEQ # [illegible]
TICKET # 012052 SERVER ID 7
AUTH CODE 211997

BASE $36.26
TIP 6.00
TOTAL 42.26

SIGN X

PAULUS TRISNADI

GRATUITY GUIDELINE
15%=$5.43 20%=$7.25

I AGREE TO PAY ABOVE TOTAL AMOUNT
ACCORDING TO CARD ISSUER AGREEMENT

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE: 8/11/1999

INVOICE #: FAST.005

DATE	DESCRIPTION	AMOUNT
August 11, 1999	Vadem, Inc. Clio PC Companion	975.00
	3Com Palm IIIx	329.95
	Shipping	18.69

TOTAL $1,323.64

DUE UPON RECEIPT,
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

OK to pay
per Michael Mischke Reeds
8/14/99

5005 - 203

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8010

Invoice

FastTrack
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE 8/11/1999

INVOICE #. FAST.004

DATE	DESCRIPTION	AMOUNT
August 11, 1999	Retainer for Q4 1999 Design and Production Fees	$2,000.00

TOTAL $52,000.00

DUE UPON RECEIPT.
PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID #74-2899535

OK to pay per
Michael Mischke Reeds
8/14/99

5205-200

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE: 8/5/1999

INVOICE #: FAST.003

DATE	DESCRIPTION		AMOUNT
August 5, 1999	Site & Sponosr Demo's Phase 2++		
	Paulus Trisnadi - 89 hrs @ $125		11,125.00
	Alice Clark - 20 hrs @ $125		2,500.00
	Mark Freeman - 11 hrs @ $125		1,375.00
	Eric Gould - 12 hrs @ $200		2,400.00
	Site & Sponsor Total Fees	$17,400.00	
August 6, 1999	TrailFinder Demo's (WebTV & Palm)		
	Paulus Trisnadi - 38 hrs @ $125		4,750.00
	Donald McCaskill - 28 hours @ $125		3,500.00
	Eric Gould - 12 hrs @ $200		2,400.00
	TrailFinder Total Fees	$10,650.00	

DUE UPON RECEIPT.
PLEASE REMIT TO ABOVE ADDRESS

TOTAL $28,050.00

Tax Payer ID #74-2899535

OK to pay per Michael
Mischke Reeds
8/9/99

5205 - 2m

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440 8000

Invoice

FastTrack
c/o Michael Mischke-Reed
via fax: 1/415/333-2975

DATE 6/24/1999

INVOICE # FAST.02

DATE	DESCRIPTION		AMOUNT
June 24, 1999	Phase I.5 Delivery		
	Paulus Trisnadi - 146 hrs @ $125		18,250.00
	Mark Freeman - 51 hrs @ $125		6,375.00
	Eric Gould - 48 hrs @ $200		9,600.00
	TOTAL FEES	$34,225.00	
	COURTESY DISCOUNT		
	10% of Paulus Trisnadi		-1,825.00
	100% Mark Freeman		-6,375.00
	DISCOUNT TOTAL	-$ 8,200.00	
	TOTAL DUE	$26,025.00	
	Outstanding Invoice FAST.001		5,000.00
	Credit Against retainer for fees (FAST.001)		-5,000.00

TOTAL $26,025.00

DUE UPON RECEIPT, PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID#74-289935

Less payment CK #102 < 5,000.00>

Total due $ 21,025.00

5205-00

FROM : MONKEYmedia PHONE NO. : 512 440 8008 Jun. 24 1999 05:56PM P1

To: Marsha, CW Group
From: Michael Mischke Reeds 12 pages

Please forward this invoice + contract to our Fast Track CFO.

Thanks,
Michael

Larry will talk to Michael 1st

about the Anita per Larry ok to pay
M

MONKEYmedia, Inc.
611 South Congress Avenue
Austin, Texas 78704
(512) 440-8000

Invoice

FastTrack
c/o Michael Mischke-Reed
via fax. 1/415/333-2975

DATE: 6/7/1999

INVOICE #: FAST.001

DATE	DESCRIPTION	AMOUNT
June 1, 1999	Retainer for FastTrack Project Fees	$5,000.00

TOTAL $5,000.00

DUE UPON RECEIPT, PLEASE REMIT TO ABOVE ADDRESS

Tax Payer ID#74-2899315

EXHIBIT O TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

CONCEPT FIVE PROPOSAL, AUGUST 1999

SB Proposal (HIGH)	MONTHLY	HOURLY										
Architecture & Development		**(50 hr wk)**	**Sep-99**	**Oct-99**	**Nov-99**	**Dec-99**	**Sep-99**	**Oct-99**	**Nov-99**	**Dec-99**		
Lead Architect (Proj Mgr)	$50,000	$250	100%	100%	100%	100%	$ 50,000	$ 50,000	$ 50,000	$ 50,000		
Architect (Requirements)	$40,000	$200	100%	50%	50%	50%	$ 40,000	$ 20,000	$ 20,000	$ 20,000		
Developer	$40,000	$200	0%	200%	200%	200%	$ -	$ 80,000	$ 80,000	$ 80,000		
Configuration Manager/ SA	$40,000	$200	50%	50%	100%	100%	$ 20,000	$ 20,000	$ 40,000	$ 40,000		
Object Modeler	$40,000	$200	0%	50%	50%	50%	$ -	$ 20,000	$ 20,000	$ 20,000		
Data Modeler	$40,000	$200	0%	50%	50%	50%	$ -	$ 20,000	$ 20,000	$ 20,000		
Advisory												
Methodology Architect	$50,000	$250	25%	0%	0%	10%	$ 12,500	$ -	$ -	$ 5,000		
QA Architect	$50,000	$250	10%	10%	10%	25%	$ 5,000	$ 5,000	$ 5,000	$ 12,500		
Pharmaceuticals Architect	$50,000	$250	10%	10%	10%	10%	$ 5,000	$ 5,000	$ 5,000	$ 5,000		
Modeling and Simulation Architect	$50,000	$250	25%	10%	10%	10%	$ 12,500	$ 5,000	$ 5,000	$ 5,000	sep-dec	sep-nov
							$145,000	$ 225,000	$ 245,000	$ 257,500	**$872,500**	$ 615,000

Reduced Proposal	MONTHLY	HOURLY										
Architecture & Development		**(50 hr wk)**	**Sep-99**	**Oct-99**	**Nov-99**	**Dec-99**	**Sep-99**	**Oct-99**	**Nov-99**	**Dec-99**		
Lead Architect (Proj Mgr)	$50,000	$250	50%	100%	100%	75%	$ 25,000	$ 50,000	$ 50,000	$ 37,500		
Architect (Requirements)	$40,000	$200	0%	0%	0%	0%	$ -	$ -	$ -	$ -		
Developer	$40,000	$200	0%	100%	100%	100%	$ -	$ 40,000	$ 40,000	$ 40,000		
Configuration Manager/ SA	$40,000	$200	20%	20%	20%	20%	$ 8,000	$ 8,000	$ 8,000	$ 8,000		
Object Modeler	$40,000	$200	0%	50%	50%	20%	$ -	$ 20,000	$ 20,000	$ 8,000		
Data Modeler	$40,000	$200	0%	25%	50%	50%	$ -	$ 10,000	$ 20,000	$ 20,000		
Advisory												
Methodology Architect	$50,000	$250	10%	0%	0%	10%	$ 5,000	$ -	$ -	$ 5,000		
QA Architect	$50,000	$250	10%	10%	10%	10%	$ 5,000	$ 5,000	$ 5,000	$ 5,000		
Pharmaceuticals Architect	$50,000	$250	10%	10%	10%	10%	$ 5,000	$ 5,000	$ 5,000	$ 5,000		
Modeling and Simulation Architect	$50,000	$250	10%	25%	10%	10%	$ 5,000	$ 12,500	$ 5,000	$ 5,000	sep-dec	sep-nov
							$ 53,000	$ 150,500	$ 153,000	$ 133,500	**$490,000**	$ 356,500
											44%	42%

Notes

Reductions in headcount: Architect (1 FTE), Developer (1 FTE)

Pushing out timeline:

- Start mid-September, not September 1
- Data modeling lags object modeling (slightly)
- Sponsor lags site by 4-6 weeks
- Rev 2 work, including EON review, pushed back by a month
- Phase 1 ends in December

EXHIBIT P TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

CONCEPT FIVE MILESTONES REVIEWS SUMMARY, SEPTEMBER 1999 - DECEMBER 1999

Fast Track Phase 1 Milestones Reviews Summary

Week	ID	Task	Start	Finish
Week of September 19				
	9	Draft Review of Conceptual Model v.0.2	09/24/99	09/24/99
Week of September 26				
	10	Review of Conceptual Model v.0.2	10/04/99	10/04/99
	169	Weekly Progress Reviews 2	10/05/99	10/05/99
	44	Review of Site R1 Implementation Strategy	10/06/99	10/06/99
	27	Review First Tier COTS	10/08/99	10/08/99
	33	Review of Site R1 Tech Architecture v.0.2	10/08/99	10/08/99
	34	Review Project Application of S-AIM	10/08/99	10/08/99
Week of October 10				
	20	Review of Security Policy v.0.5 w/ FastTrack	10/12/99	10/12/99
	170	Weekly Progress Reviews 3	10/12/99	10/12/99
	14	Review of Conceptual Model v.0.5	10/15/99	10/15/99
Week of October 17				
	171	Weekly Progress Reviews 4	10/19/99	10/19/99
	178	C5 Presentation to FastTrack Management	10/19/99	10/19/99
	179	Working Sessions with EON/Protégé Team	10/20/99	10/20/99
Week of October 24				
	180	Sponsor Kickoff Meeting: C5, Monkey Media, CBC	10/25/99	10/25/99
	87	Review of Spon R1 Tech Architecture v.0.2	10/26/99	10/26/99
	97	Review of Spon R1 Implementation Strategy	10/26/99	10/26/99
	155	Review 2nd Tier COTS	10/26/99	10/26/99
	172	Weekly Progress Reviews 5	10/26/99	10/26/99
	23	Review of Security Policy v.1.0 w/ FDA	10/27/99	10/27/99
	52	Review of Site R1 Analysis Model v.0.5	10/29/99	10/29/99
Week of October 31				
	37	Review of Site R1 Tech Architecture v.0.5	11/01/99	11/01/99
	148	Review of Skeletal Alternatives and Metric Types	11/01/99	11/01/99
	154	Review EON Architecture Strategy	11/01/99	11/01/99
	173	Weekly Progress Reviews 6	11/02/99	11/02/99
	62	Review of Site R1 Platform Deliverables	11/05/99	11/05/99
Week of November 7				
	48	Demonstration of Site R1 Prototype	11/09/99	11/09/99
	174	Weekly Progress Reviews 7	11/09/99	11/09/99
	90	Review of Spon R1 Tech Architecture v.0.5	11/10/99	11/10/99
	105	Review of Spon R1 Analysis Model v.0.5	11/10/99	11/10/99
Week of November 14				
	17	Review of Conceptual Model v.1.0	11/15/99	11/15/99
	65	Review of Site R1 Implementation Plan	11/15/99	11/15/99
	40	Review of Site R1 Physical Architecture v.1.0	11/16/99	11/16/99
	175	Weekly Progress Reviews 8	11/16/99	11/16/99
Week of November 21				
	55	Review of Site R1 Analysis Model v.1.0	11/22/99	11/22/99
	137	Review of Rev 2 Analysis Model v.0.5	11/22/99	11/22/99
	176	Weekly Progress Reviews 9	11/23/99	11/23/99
	143	Review R2 Architecture and Plan	11/25/99	11/25/99
Week of November 28				
	93	Review of Spon R1 Physical Architecture v.1.0	11/29/99	11/29/99
	116	Review of Spon R1 Implementation Plan	11/29/99	11/29/99
	108	Review of Spon R1 Analysis Model v.1.0	11/30/99	11/30/99
	177	Weekly Progress Reviews 10	11/30/99	11/30/99
Week of December 5				
	101	Demonstration of Spon R1 Prototype	12/06/99	12/06/99
	113	Review of Spon R1 Platform Deliverables	12/06/99	12/06/99

EXHIBIT Q TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

TRANSITION PLAN TO INTERNAL DEVELOPMENT TEAM, MARCH 2000

C5 Resources	Resource Offset	Resource Start Date	C5 Off Project	R1 Release Date	Delta (Release Date - Off Project)	Notes
Allen Chang	Java Guru	1-Jul	1-Aug	15-Jun	-47	Java Guru
Michael E	Gary Fong	30-Apr	30-May	15-Jun	16	Keep on Through Release 1 Devl/QA
John M.	?? (May want to keep for futures)				0	Need to develop plan for how to use John
SidDharth	Jeff Veatch (Offer Made)	15-Apr	15-May	15-Jun	31	
Chris H.	New System Admin (not yet ID'd)	1-May	15-May	15-Jun	31	For Personal reasons Chris needs to be off by May 15
Matt M.	Java Guru	1-Jul	1-Aug	15-Jun	-47	Java Guru
Rick Osborn	Colin Sheild (Offer Made)	15-Apr	15-May	15-Jun	31	
Jason K.	Steve Adams (Offer Made)	15-Apr	30-Apr	15-Jun	46	
Chris C.	Nadine P. (Accepted)	3-Apr	10-Apr	15-Jun	66	
Jim Murphy	PS-KK-PA-RL (ME-JM)	On Board	4/1/2000	15-Jun	75	20% through month of April support JM and ME
Ted Wells	KK-Debashish or M. Mueller	1-May	3/17/2000	15-Jun	90	
Part Time (Arch, Proj mgt) (Robe	C5 needs to justify					C5 planing on pulling off billable by end of month

General Notes:

0. This plan is very optimistic
1. Do we want to keep entire R1 team in tact through QA (Execption QA, may arch's)
2. Do we want to keep more of C5 on to start future release (they would be interested in fixed price model if they managed and resourced)
3. Do we want to keep more developers on in order to have reserve for slips.
4. This plan assumes all offers out are accepted

EXHIBIT R TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCENARIO-STORIES, OCTOBER 1999

Scenario One: Prepping for Patient Visit.

Anne Brown is the Clinical Coordinator at a small regional clinic. On Monday morning Anne checks the FTS calendar on her Dashboard.
*On the calendar/schedule screen, a reminder shows up, alerting her to the fact that Jane Doh has clinic visit #6 scheduled on Thursday.
*She checks with the Front Desk (FD) to confirm the visit.
*She goes to the Task Management screen of her dashboard for a list of the tasks to be performed during the visit and the roles associated with each task.
*In addition to seeing the tasks to be completed *during* the visit, she sees a list of tasks that must be completed *before* visit #7 (such as chest X-ray) and for visit #7 (e.g.: to see if MD or PI is available).
After reviewing the list and making any necessary changes, Anne clicks [OK] to approve the list. She then prints out a paper version of the checklist for the FD**.** Alternatively, clicking [OK] creates an electronic version that is downloadable to the Fast Track HandHeld (HH) unit.

{
For paper version of task list:
The FD takes this task form on the day of Visit #6 and acts accordingly. The completed task form is put into a bin and later faxed to FTS. FTS updates the Anne's Clinical Coordinator Dashboard with an e-mail which says either: 1) yesterday's visit was okay or; 2) Patient PT123, Visit #6 did not collect in-depth neurological exam (or other incomplete data).

When Anne checks the CC Dashboard on Tuesday morning, a flag from FTS alerts her to the discrepancy. Accordingly, she schedules visit 6A.
}

For the HH version of the task list:

When Anne clicks [OK], she populates a task list that is downloadable to the HH.
Two possible models here: 1 user: 1 HH: Many patients, **OR** 1 HH: 1 Patient: Many Users (this latter model being more preferable and probably more palatable to those with any technophobe proclivities).

Under the 1HH model:
The HH is velcroed or otherwise attached to the patient clipboard or chart. The Chart is placed at the MA's station.
*The Med Assist checks HH, does his assigned tasks, clicks [Done] or otherwise signs off. HH is reattached to the clipboard and passed on, to the MD.
*MD is read-only. She reviews tasks, clicks [Done] or otherwise signs off and passes HH and clipboard on to RN.
*RN acts accordingly, in the manner of MA and MD, and passes on to FD.
*FD reviews, HH passed on, tasks for next visit annotated.
At the end of the visit, the Checked off task list is uploaded to FTS and, as in the case of the paper version, FTS either signals all is okay or sends a flag to the clinical coordinator.

Scenario Two: The Clinical Coordinator

Clinical coordinator Silas Marner arrives at a large university medical center on Tuesday morning, grabs his coffee and logs on to his Dashboard.

- Immediately after log on, an alert from FTS shows up on the screen: "10/11/99 — Patient PT789 did not give blood sample." He notes this and schedules a visit for Patient PT789 as soon as possible with the FD.

- Additionally, he sees in the reminder window that Inventory Control needs investigation: the number of lab kits for study 11235 is critically low.

- A third reminder notifies him that Patient PT456 on study X is due for a 6-month follow-up visit on Thursday and needs a reminder phone call.

After acting accordingly, Silas consults the dashboard to:
1. review/add to/modify the task/to-do list
2. check on IRB approval of study LZ4
3. Silas also sees that he should place ads in the local radio market to attract more patients for study LZ7.

Later in the day, Silas uses the dashboard to drill into certain items:

- He investigates study set-up (a list of accruing studies and the accrual status).

- He also prepares for next week's patient visits

- He checks the calendar and confirms with the FDS.

- Finally, he reviews Task List reminders to make sure everything is in order for the business of the day.

Scenario Three: Enrolling in a Study

Clinical coordinator Emily Morrison receives a phone call from a Trial Sponsor asking if the clinic is interested in an anti-emetic trial. When Emily indicates an interest, the Sponsor follows up with a fax.

Emily and a PI run an accrual simulation to determine the feasibility of enrolling in the study. An examination of the clinic's resources reveals that the study is viable. After budgeting, the clinic's PI okays the study and a contract is signed. The clinic opens a file for study 9NZGL.

Emily consults the study general info, which includes input fields for sponsor name, clinical manager name, relevant phone numbers, study names, accrual target, and information about the IRB. She also consults a checklist of tasks that must be performed prior to patient enrollment. She uses this checklist to determine the status (submitted, pending, or approved) of Informed Consent Forms, IRB approval, the receipt of the protocol and binders, …, and receipt of the IRB approval letter.

When she checks off that the tasks are done, the dashboard logs the appropriate information and uploads it to FTS.

After this process is completed, Emily runs the QuickScreener to find patients and checks with the MD to contact them. An eligibility checklist is also disseminated to MD's and care providers via the HH. CRF's, drugs, and lab kits will also be signed off once enough patients are accrued.

EXHIBIT S TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

CONCEPT FIVE ARCHITECTURE SPEC 0.1, OCTOBER 1999

Fast Track: Conceptual Model and Architecture Document

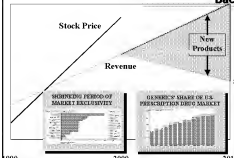
September 22, 1999

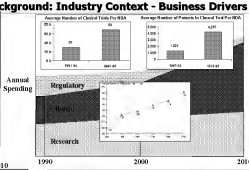
Contents

TOPICS

FastTrack Background

Background: Industry Context - Business Drivers





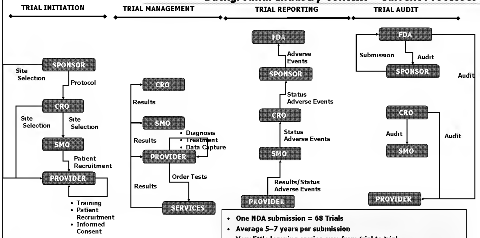
2.5 x R&D Throughput is required to sustain revenue growth trends using new products. Revenue from each product is shrinking because 1) there is a shrinking period of market exclusivity for each product and 2) generic drugs are taking a larger share of the U.S. market

R&D Expenses are being driven by clinical trials

INDUSTRY BUSINESS DRIVERS

- Over the next five years, pharmaceutical products worth $308 in annual revenue will come off patent. In order to maintain the growth rates driving current valuations, the pharmaceutical industry must more than double the rate of new product introductions while maintaining current expense levels. Technologies such as combinatorial chemistry and high throughput screening have reduced the pre-clinical cycle time and the FDA Modernization Act and EU harmonization have reduced regulatory review times. But the human clinical trial time and costs have continued to grow. The time required for clinical trials now approaches 50% of the 14.7 years that it takes the average new drug to come to market. Time to market is often the most important factor driving pharmaceutical profitability -- a recent study demonstrated that the first drug-in-class to market averages a 50% market share with competing products dividing the remainder. An industry rule of thumb states that for a drug with billion-dollar market potential, each day spent in clinical trials reduces potential revenue by $3 million due to patent expiration issues.
- Clinical trials are also very expensive. In US pharmaceutical companies alone, about $6B or 40% of total pharmaceutical R&D is spent annually on human clinical trials. Spending on clinical trials is growing 15% per year, almost 50% above the industry's sales growth rate. Trials are growing both in number and complexity, growing from 30 trials per new drug application and less than 100 procedures per trial to almost 70 trials per application and about 160 procedures per trial, over the past 20 years. The trials process is largely paper-based and highly inefficient. In order to maintain growth and profitability, the pharmaceutical industry must significantly reduce the time and cost it takes to complete human clinical trials.

Background: Industry Context – Current Processes



- **One NDA submission = 68 Trials**
- **Average 5–7 years per submission**
- **Very little learning carries over from trial to trial**
- **Almost no learning from drug to drug**

KEY PLAYERS IN CLINICAL TRIALS

- **FDA**
  - Clinical
  - Pharm/Tox
  - Adverse Events
  - Audit

Pharma Sponsor
- Medical
- Regulatory
- Biometrics
- Marketing

Contract Research Organization
- Audit/CRA
- Biostatistician
- Project Management

Site Management Organization
- Clinical Coordinator
- Site Selection/Admin
- Project Coordinator

Provider
- Physician
- Clinical Coordinator
- Nurse
- Admin
- Patient

Services
- Laboratory
- Radiology
- Pathology

Background: FastTrack – Business Model and Service

FASTTRACK BUSINESS MODEL

FastTrack will provide its solutions using a service based business model in which FastTrack rather than sponsors or individual sites take responsibility for the entire trial process This will eliminate the need for sponsors or sites to learn and support the complex technology underlying FastTrack and permit them to focus on the trials themselves It will also eliminate the need for large up front investments in equipment, software and training

The FastTrack network will incorporate clinical specialty networks, community practices and academic medical centers Each site will use the FastTrack information system to recruit patients, manage their trials and deliver information to sponsors FastTrack will maintain a central data base that will improve accrual efficiency and provide sponsors with quantitative proof of network sites' ability to deliver patients and produce high quality data in a timely and cost efficient manner FastTrack will also provide a central clearinghouse function so that sites can learn about other trials for which their particular patient populations would be appropriate, thereby increasing the number of trials in which they can participate

FastTrack's customers will include pharmaceutical organizations, CROs, SMOs and its network of trial sites Its revenues will be derived from

- Licenses for the protocol authoring tool based on number of trials for which it is used by each sponsor
- Sponsor access to the central FastTrack anonymized data base for recruitment simulation and protocol refinement
- Trial management and reporting services for each site using a combination of transaction and subscription pricing models
- Sales of (anonymized) data to support sponsor marketing programs
- Specialized services to support electronic data submission and other regulatory reporting requirements
- Ad hoc queries of practice locations regarding interest in potential studies or estimates of availability of unusual patient populations
- Addition of specialized non protocol required screening variables, such as functional status measures, which can used as alternative endpoints should a clinical study fail to meet its designed endpoints
- Addition of specialized non protocol required variables, such as insurance status, which can be used by the site practice management administration for detailed clinical financial evaluation of local case mix and practice patterns

FastTrack intends to focus initially on trials involving drugs with complex protocols, high patient surveillance requirements, high activity intensity, high data volume and large market potential Examples include oncology, HIV, cardiovascular and neuroactive drug trials Once the FastTrack service is operating smoothly and its fixed costs are covered the Company will expand the service to other drugs and possibly devices

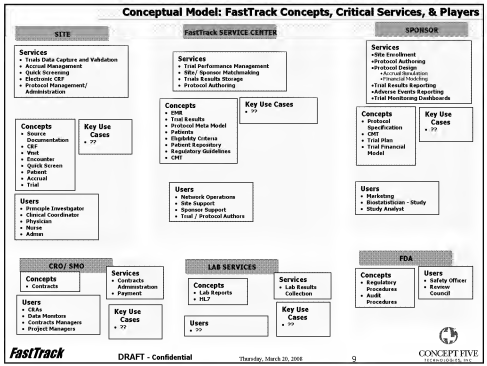
FASTTRACK SERVICE OBJECTIVES

- The heart of FastTrack's proprietary information technology is the Intelligent Clinical Protocol (ICP) The clinical protocol is the foundation of every trial and largely determines the time, cost and ultimate success or failure of the trial All parts of a trial, including recruitment, treatment, data requirements, trial management and reporting, flow from detailed specifications contained in the protocol FastTrack believes that a system driven by the fundamental protocol provides the best solution for improving the trial process
- The ICP begins with a protocol authoring tool that exploits detailed knowledge bases such as trial design templates, historical and competing clinical trials, actual medical procedure costs, anonymized patient clinical summaries, FDA and European regulatory requirements, pre clinical pharmacokinetic and pharmacodynamic models and statistical parameters to assist the pharmaceutical medical director optimize study design and model patient accrual FastTrack software will automatically translate the protocol into an electronic Case Report Form (eCRF) to be transmitted electronically to the physicians performing trials Anticipating the rapid growth of electronic medical records, the eCRF will automatically screen the physician's or institution's current patient records to determine trial eligibility
- Following enrollment, FastTrack workflow management software will generate appropriate role-specific task lists to ensure that the physician, nurses and other staff execute the trial tasks as specified in the protocol Finally, FastTrack point of care devices will ensure that all required data is captured in real time and is automatically 'reality & quality checked' while the patient is in the physician's exam room Results will be uploaded to FastTrack's repository, checked by on line queries, and loaded into the sponsor's database for statistical analysis and subsequent FDA/EMEA submission Following approval, FastTrack expects to repackage and sell this information to the same company's marketing group to accelerate sales ramp up
- Additional direct benefits to the study sponsors include rapid analysis of interim study results, immediate implementation of any mid-study protocol modifications, near real time monitoring of patient accrual and other project milestones, and point of service data validation and quality assurance Direct benefits to study locations include rapid patient accrual using automated screening tools, automatic protocol modifications without manual intervention, automated workflow and task lists for improved study productivity and throughput, and electronic data capture eliminating paper piles
- FastTrack will deliver its information services to sponsors, CROs and sites over the Internet using a central application service provider (ASP) and thin-client model that supports multiple user devices including workstations and hand held computers This approach will reduce cost, complexity and learning times for its users, providing them with service based solutions rather than simply software All software and data will be centrally maintained for reasons of efficiency and security Confidentiality will be maintained through strict use of modern encryption protocols and standards

Background: FastTrack's Competition

PRODUCT CLASS	COMPANIES
Trial Simulation & Design	PharSight, Babelon, FastTrack
Clinical Data Capture	Phase Forward, CB MetaTrial, PHT Corp PhaseNet, Versai Web Trial, Clinical Data Solutions, FastTrack
Site-oriented Clinical Trial Management (scheduling, task management, finances)	Advanced Clinical Software - Study Manager, Fraser Williams - Impact, FastTrack
Matching sponsors to sites, patients to studies via Web	Clinmark.com, CenterWatch, FastTrack
Workflow Management	IBM Mqseries, Action Technologies, Computron, DST Systems, FileNET Staffware, Workflow Solutions Group
Document Management	Documentum, PC Docs/Fulcrum, Microsoft - OpenText, Lotus, Novell, Eastman Software
Charge and Patient Databases	DataEdge PICUS
Patient-Oriented Disease Specific Web Portals	Drkoop.com, Americasdoctor.com, WebMD.com, Healtheon.com
Medical Terminology Services	Lexical Technology, Ontyx
Clinical Data Management	Domain, Oracle Clinical

Conceptual Model


Conceptual Model: FastTrack Concepts, Critical Services, & Players
SITE
Services
• Trials Data Capture and Validation
• Accrual Management
• Quick Screening
• Electronic CRF
• Protocol Management/ Administration
Concepts
• Source Documentation
• CRF
• Visit
• Encounter
• Quick Screen
• Patient
• Accrual
• Trial
Key Use Cases
• ??
Users
• Principle Investigator
• Study Coordinator
• Physician
• Nurse
• Admin
FastTrack SERVICE CENTER
Services
• Trial Performance Management
• Site/ Sponsor Matchmaking
• Trials Results Storage
• Protocol Authoring
Concepts
• EMR
• Trial Results
• Protocol Meta Model
• Patients
• Eligibility Criteria
• Document Repository
• Regulatory Guidelines
• CMT
Key Use Cases
• ??
Users
• Network Operations
• Site Support
• Sponsor Support
• Trial / Protocol Authors
SPONSOR
Services
•Site Enrollment
•Protocol Authoring
•Protocol Design
• Accrual Simulation
• Financial Modeling
•Trial Results Reporting
•Adverse Events Reporting
•Trial Monitoring Dashboards
Concepts
• Protocol Specification
• CMT
• Trial Plan
• Trial Financial Model
Key Use Cases
• ??
Users
• Marketing
• Biostatistician - Study
• Study Analyst
CRO/ SMO
Concepts
• Contracts
Users
• CRAs
• Data Monitors
• Contracts Managers
• Project Managers
Services
• Contracts Administration
• Payment
Key Use Cases
• ??
LAB SERVICES
Concepts
• Lab Reports
• HL7
Users
• ??
Services
• Lab Results Collection
Key Use Cases
• ??
FDA
Concepts
• Regulatory Procedures
• Audit Procedures
Users
• Safety Officer
• Review Council
FastTrack
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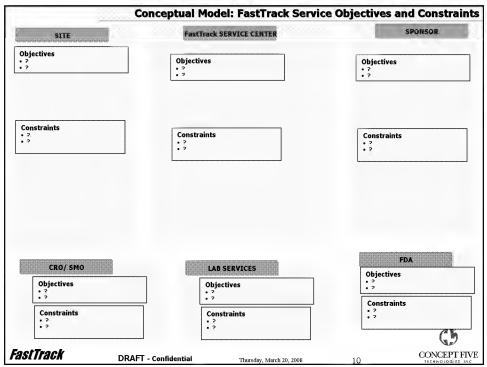
Conceptual Model: FastTrack Service Objectives and Constraints
SITE
Objectives
• ?
• ?
Constraints
• ?
• ?
FastTrack SERVICE CENTER
Objectives
• ?
• ?
Constraints
• ?
• ?
SPONSOR
Objectives
• ?
• ?
Constraints
• ?
• ?
CRO/ SMO
Objectives
• ?
• ?
Constraints
• ?
• ?
LAB SERVICES
Objectives
• ?
• ?
Constraints
• ?
• ?
FDA
Objectives
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• ?
Constraints
• ?
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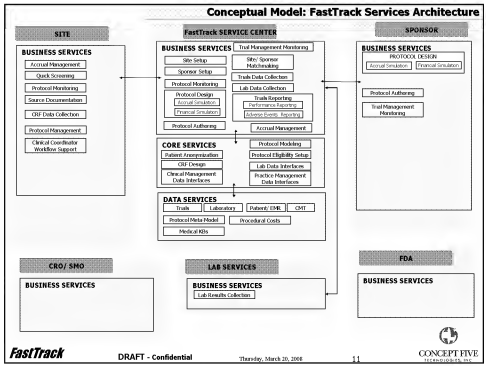
Conceptual Model: FastTrack Services Architecture
SITE
BUSINESS SERVICES
Accrual Management
Quick Screening
Protocol Monitoring
Source Documentation
CRF Data Collection
Protocol Management
Clinical Coordinator Workflow Support
FastTrack SERVICE CENTER
BUSINESS SERVICES
Trial Management Monitoring
Site Setup
Site/ Sponsor Matchmaking
Sponsor Setup
Trials Data Collection
Protocol Monitoring
Lab Data Collection
Protocol Design
Accrual Simulation
Financial Simulation
Trials Reporting
Performance Reporting
Adverse Events Reporting
Protocol Authoring
Accrual Management
CORE SERVICES
Protocol Modeling
Patient Anonymization
Protocol Eligibility Setup
CRF Design
Lab Data Interfaces
Clinical Management Data Interfaces
Practice Management Data Interfaces
DATA SERVICES
Trials
Laboratory
Patient/ EMR
CMT
Protocol/Meta Model
Procedural Costs
Medical KBs
SPONSOR
BUSINESS SERVICES
PROTOCOL DESIGN
Accrual Simulation
Financial Simulation
Protocol Authoring
Trial Management Monitoring
CRO/ SMO
BUSINESS SERVICES
LAB SERVICES
BUSINESS SERVICES
Lab Results Collection
FDA
BUSINESS SERVICES
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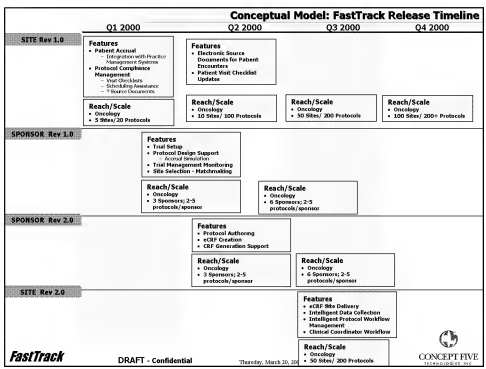
Conceptual Model: FastTrack Release Timeline
Q1 2000
Q2 2000
Q3 2000
Q4 2000
SITE Rev 1.0
Features
• Patient Accrual
– Integration with Practice Management Systems
• Protocol Compliance Management
– Alerts/Tasks
– Scheduling Assistance
– ? Source Documents
Features
• Electronic Source Documents for Patient Encounters
• Patient Visit Checklist Updates
Reach/Scale
• Oncology
• 5 Sites/ 20 Protocols
Reach/Scale
• Oncology
• 10 Sites/ 100 Protocols
Reach/Scale
• Oncology
• 50 Sites/ 200 Protocols
Reach/Scale
• Oncology
• 100 Sites/ 200+ Protocols
SPONSOR Rev 1.0
Features
• Trial Setup
• Protocol Design Support
Accrual Simulation
• Trial Management Monitoring
• Site Selection - Matchmaking
Reach/Scale
• Oncology
• 3 Sponsors; 2-5 protocols/sponsor
Reach/Scale
• Oncology
• 6 Sponsors; 2-5 protocols/sponsor
SPONSOR Rev 2.0
Features
• Protocol Authoring
• eCRF Creation
• CRF Generation Support
Reach/Scale
• Oncology
• 3 Sponsors; 2-5 protocols/sponsor
Reach/Scale
• Oncology
• 6 Sponsors; 2-5 protocols/sponsor
SITE Rev 2.0
Features
• eCRF Rtm Delivery
• Intelligent Data Collection
• Integrated Protocol Workflow Management
• Clinical Coordinator Workflow
Reach/Scale
• Oncology
• 50 Sites/ 200 Protocols
FastTrack
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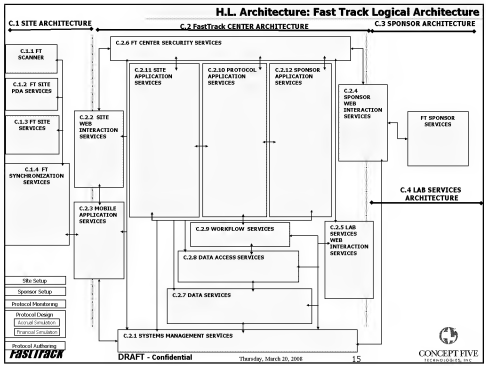
CONCEPT FIVE

Conceptual Model: FastTrack Conceptual Framework for Architecture

High Level Architecture


H.L. Architecture: Fast Track Logical Architecture
C.1 SITE ARCHITECTURE
C.2 FastTrack CENTER ARCHITECTURE
C.3 SPONSOR ARCHITECTURE
C.4 LAB SERVICES ARCHITECTURE
C.1.1 FT SCANNER
C.1.2 FT SITE POA SERVICES
C.1.3 FT SITE SERVICES
C.1.4 FT SYNCHRONIZATION SERVICES
C.2.6 FT CENTER SERCURITY SERVICES
C.2.11 SITE APPLICATION SERVICES
C.2.10 PROTOCOL APPLICATION SERVICES
C.2.12 SPONSOR APPLICATION SERVICES
C.2.4 SPONSOR WEB INTERACTION SERVICES
FT SPONSOR SERVICES
C.2.2 SITE WEB INTERACTION SERVICES
C.2.3 MOBILE APPLICATION SERVICES
C.2.9 WORKFLOW SERVICES
C.2.5 LAB SERVICES WEB INTERACTION SERVICES
C.2.8 DATA ACCESS SERVICES
C.2.7 DATA SERVICES
C.2.1 SYSTEMS MANAGEMENT SERVICES
Site Setup
Sponsor Setup
Protocol Monitoring
Protocol Design
Accrual Simulator
Financial Simulator
Protocol Authoring
FASTTRACK
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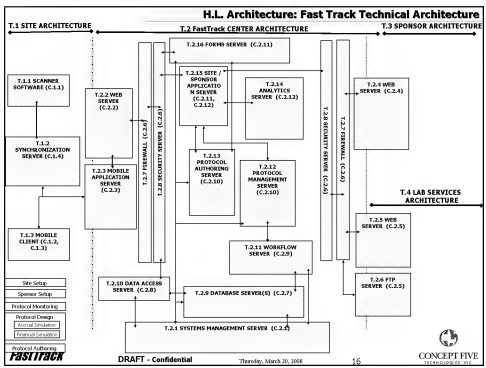
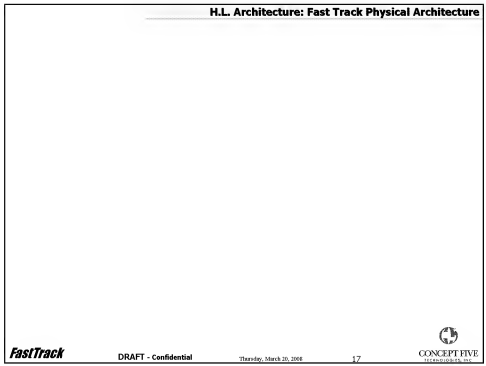
CONCEPT FIVE


H.L. Architecture: Fast Track Technical Architecture
T.1 SITE ARCHITECTURE
T.2 FastTrack CENTER ARCHITECTURE
T.3 SPONSOR ARCHITECTURE
T.4 LAB SERVICES ARCHITECTURE
T.1.1 SCANNER SOFTWARE (C.1.1)
T.1.2 SYNCHRONIZATION SERVER (C.1.4)
T.1.3 MOBILE CLIENT (C.1.2, C.1.3)
T.2.16 FORMS SERVER (C.2.11)
T.2.15 SITE / SPONSOR APPLICATION SERVER (C.2.11, C.2.12)
T.2.14 ANALYTICS SERVER (C.2.12)
T.2.4 WEB SERVER (C.2.4)
T.2.2 WEB SERVER (C.2.2)
T.2.3 MOBILE APPLICATION SERVER (C.2.3)
T.2.13 PROTOCOL AUTHORING SERVER (C.2.10)
T.2.12 PROTOCOL MANAGEMENT SERVER (C.2.10)
T.2.7 FIREWALL (C.2.6)
T.2.8 SECURITY SERVER (C.2.6)
T.2.9 SOCKET SERVER (C.2.6)
T.2.5 WEB SERVER (C.2.5)
T.2.11 WORKFLOW SERVICE (C.2.9)
T.2.6 FTP SERVER (C.2.5)
T.2.10 DATA ACCESS SERVER (C.2.8)
T.2.0 DATABASE SERVER(S) (C.2.7)
T.2.1 SYSTEMS MANAGEMENT SERVER (C.2.1)
Site Setup
Sponsor Setup
Protocol Monitoring
Protocol Design
Accrual Simulator
Financial Simulator
Protocol Authoring
FASTTRACK
DRAFT - Confidential
Thursday, March 20, 2008
16
CONCEPT FIVE

H.L. Architecture: Fast Track Physical Architecture



H.L. Architecture: Fast Track Engineering Infrastructure

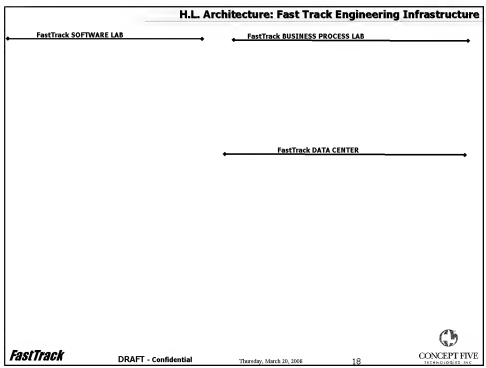
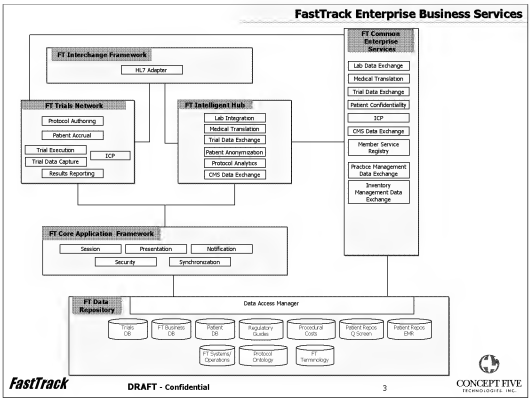


EXHIBIT T TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

CONCEPT FIVE ARCHITECTURE SPEC 3.0, FEBRUARY 3, 2000

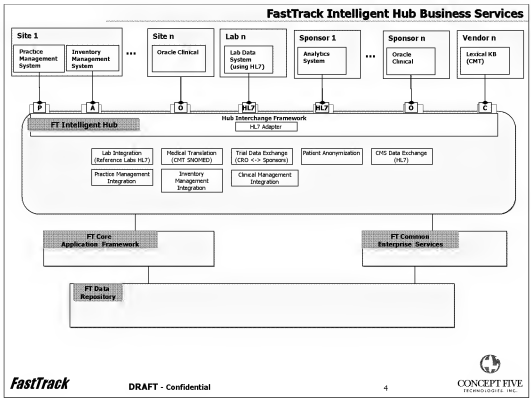
Fast Track: Trials and Hub Application Architecture

Contents



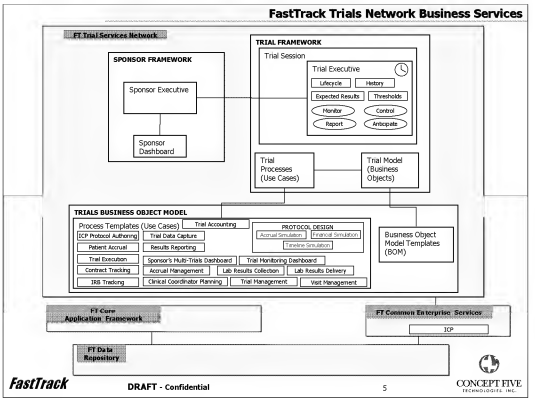
The FastTrack architecture is designed to provide reliable, high-security business services in two key areas: Trials Network and Intelligent Hub. The Trials Network is a scalable network of clinical trials connecting sponsors, sites, and patients, managing trial authoring and execution using an Intelligent Clinical Protocol engine, and providing non-obtrusive data integration and collection. Central to the Trials Network is ICP-enabled hosting on the FastTrack data center of key services for sponsors and sites. The Intelligent Hub provides adaptor-based integration of sponsor and CRO applications, in addition to supporting the Trials Network integration requirements.

The Trials Network and Intelligent Hub are built on a common architecture, the Core Application Framework. The Core Application Framework provides the following underlying application functionality: session management, security, presentation management, events and notification, and synchronization services. The Trials Network and Intelligent Hub also utilize the Common Enterprise Services to execute shared data exchange, patient confidentiality, and member registry services. The data generated, exchanged, and presented by the Trials Network and the Intelligent Hub is securely stored in the Data Repository. The distinct databases sets in the Data Repository are accessed through a Data Access Manager.



The Intelligent Hub provides adaptor-based integration of sponsor and CRO applications, in addition to supporting the Trials Network integration requirements. An open standards-based data integration platform, the Intelligent Hub provides sponsors and CROs with adapters to integrate their applications and securely share or exchange the data from these applications. The Hub also offers sponsors the ability to easily integrate prototype applications and test them with data provided by the hub. Once integrated, sponsors' applications can use the Hub for data interchange, translation, and processing.

The Intelligent Hub is built on a suite of core capabilities such as security, controlled medical terminology (CMT) translation services, and HL7 messaging. These services allow FastTrack to integrate multiple data sources in a secure, efficient manner. Architecturally, the Intelligent Hub provides adapters and integration kits as mechanisms for customized interfacing of the sponsors' applications. The execution of the data exchange is based on a publish-and subscribe model.



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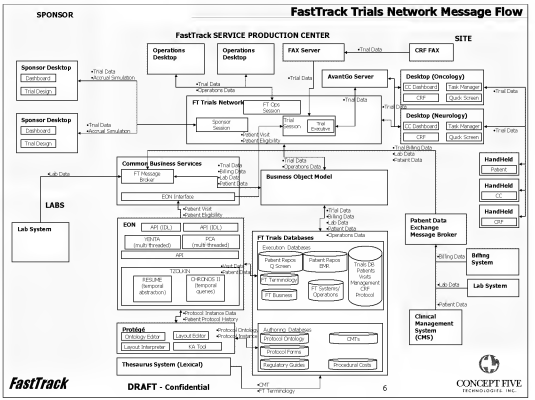
The Trials Network is a collection of trials where each trial and its lifecycle is maintained by a Trial Framework. Each Trial's framework is a uniquely instantiated "Virtual Machine" providing trials with lifecycle management and data isolation. The Trial Executive for each Trial provides run-time monitoring of trial results, and the primary communication agent for the trial in the network. Each trial's instantiated framework provides the context for the execution of the trial services for sponsors and sites. Because trials share a common business object model, it allows for compatibility across versions of a trial and comparison across trials.


SPONSOR
FastTrack Trials Network Message Flow
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Operations Desktop
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CRF FAX
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Dashboard
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FT Business
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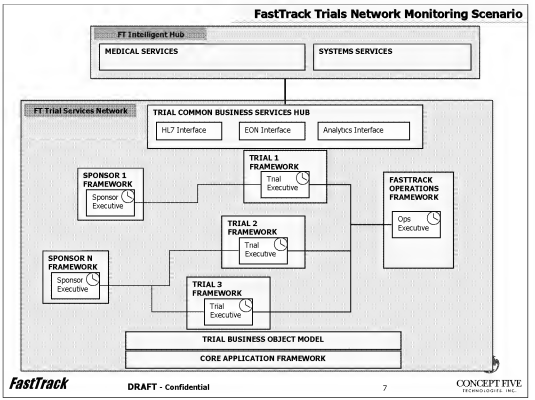
Patient Data Exchange Message Broker
Billing System
Lab System
Clinical Management System (CMS)
Protégé
Ontology Editor
Layout Builder
Layout Interpreter
KA Tool
Authoring Databases
Protocol Ontology
Protocol Forms
Regulatory Studies
CMFs
Procedural Costs
Thesaurus System (Lexical)
FastTrack
DRAFT - Confidential
6
CONCEPT FIVE
TECHNOLOGIES, INC.


FastTrack Trials Network Monitoring Scenario
FT Intelligent Hub
MEDICAL SERVICES
SYSTEMS SERVICES
FT Trial Services Network
TRIAL COMMON BUSINESS SERVICES HUB
HL7 Interface
EON Interface
Analytics Interface
TRIAL 1 FRAMEWORK
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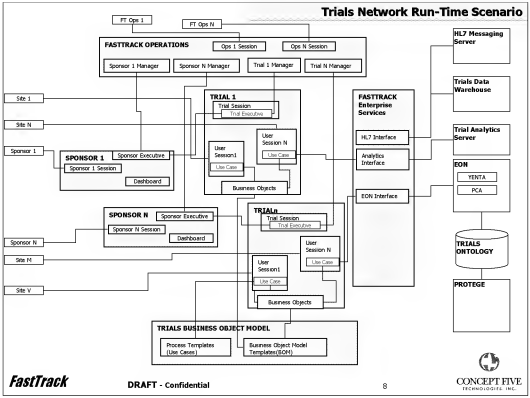
SPONSOR 1 FRAMEWORK
Sponsor Executive
FASTTRACK OPERATIONS FRAMEWORK
Ops Executive
TRIAL 2 FRAMEWORK
Trial Executive
SPONSOR N FRAMEWORK
Sponsor Executive
TRIAL 3 FRAMEWORK
Trial Executive
TRIAL BUSINESS OBJECT MODEL
CORE APPLICATION FRAMEWORK
FastTrack
DRAFT - Confidential
7
CONCEPT FIVE
TECHNOLOGIES, INC.


Trials Network Run-Time Scenario
FT Ops 1
FT Ops N
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Trials Data Warehouse
Trial Analytics Server
EON
YENTA
PCA
TRIALS ONTOLOGY
PROTEGE
Site 1
Site N
Sponsor 1
SPONSOR 1
Sponsor Executive
Sponsor 1 Session
Dashboard
TRIAL 1
Trial Session
Trial Executive
User Session 1
Use Case
User Session N
Use Case
Business Objects
FASTTRACK Enterprise Services
HL7 Interface
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EON Interface
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Dashboard
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TRIALS BUSINESS OBJECT MODEL
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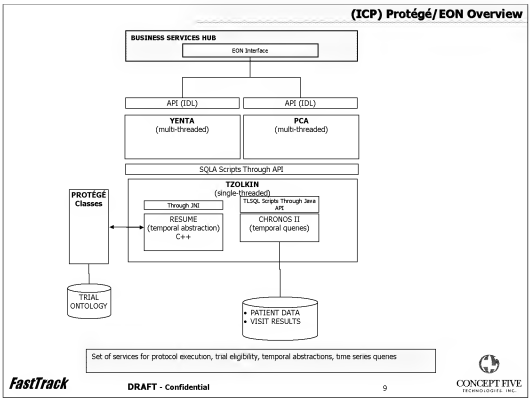
FastTrack
DRAFT - Confidential
8
CONCEPT FIVE
TECHNOLOGIES INC.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ONTOLOGY
PATIENT DATA
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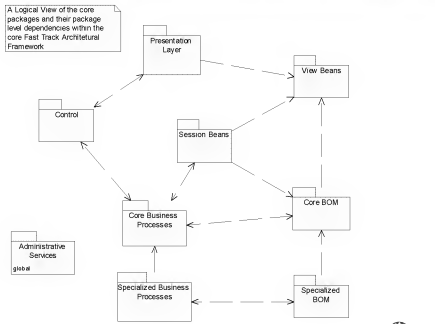
FastTrack
DRAFT - Confidential
9
CONCEPT FIVE
TECHNOLOGIES, INC.

Application Architecture - Logical Package View



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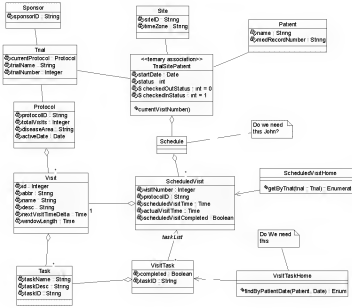

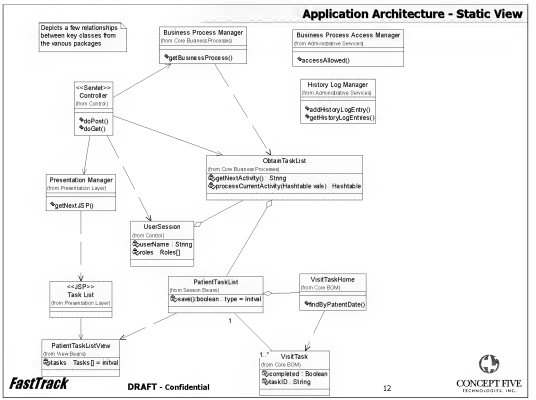
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(from Presentation Layer)
getNextJSP()
UserSession
(from Control)
userName : String
roles : Roles[]
<<JSP>>
Task List
(from Presentation Layer)
PatientTaskList
(from Session Beans)
save():boolean type = initval
VisitTaskHome
(from Core BOM)
findByPatientDate()
1
PatientTaskListView
(from View Beans)
tasks : Tasks[] = initval
1..*
VisitTask
(from Core BOM)
completed : Boolean
taskID : String
FastTrack
DRAFT - Confidential
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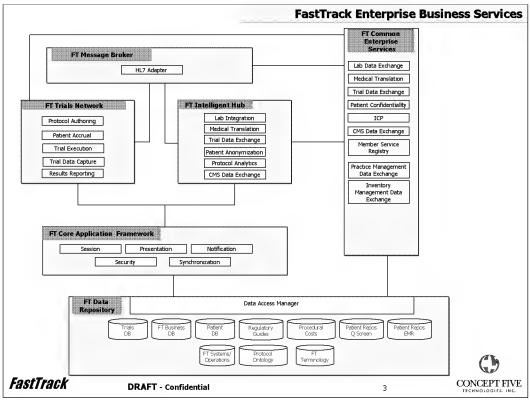
CONCEPT FIVE
TECHNOLOGIES, INC.

EXHIBIT U TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

CONCEPT FIVE ARCHITECTURE SPEC 3.6, FEBRUARY 22, 2000

Fast Track: Trials and Hub Application Architecture

Contents



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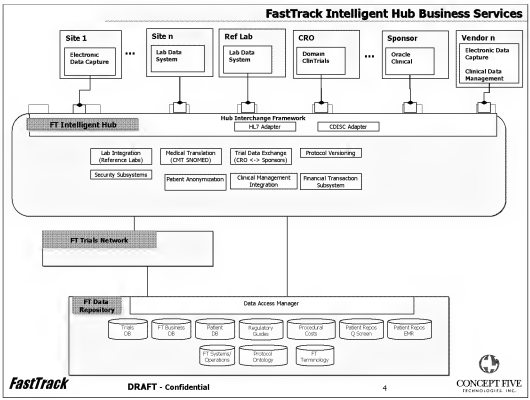

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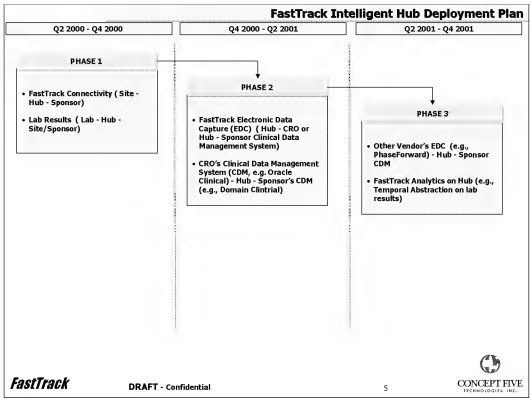

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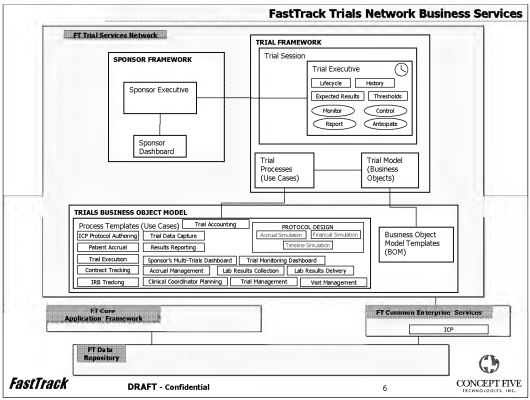

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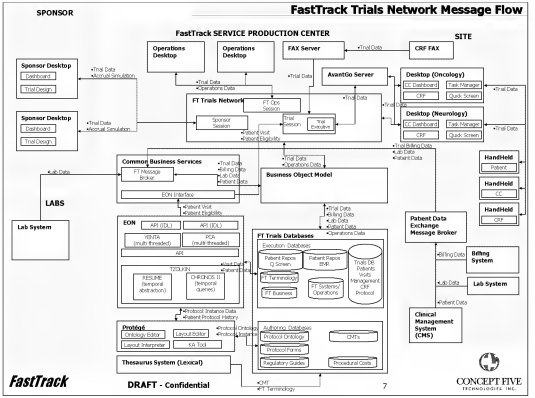
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KA Tool
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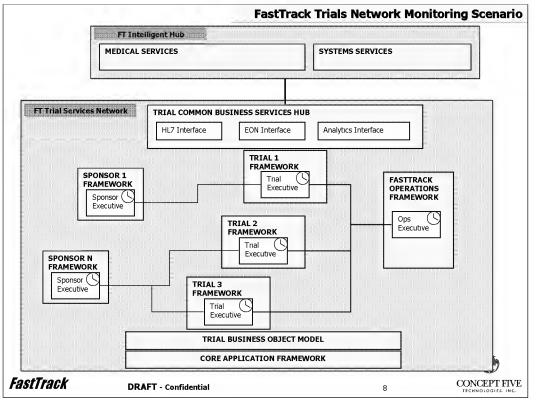
Procedural Costs
Thesaurus System (Lexical)
FastTrack
DRAFT - Confidential
7
CONCEPT FIVE
TECHNOLOGIES, INC.


FastTrack Trials Network Monitoring Scenario
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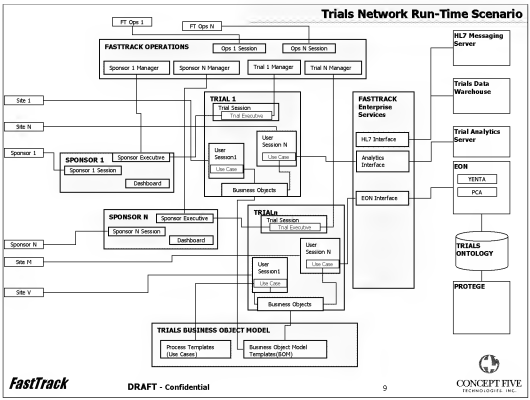
FastTrack
DRAFT - Confidential
8
CONCEPT FIVE
TECHNOLOGIES, INC.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YENTA
PCA
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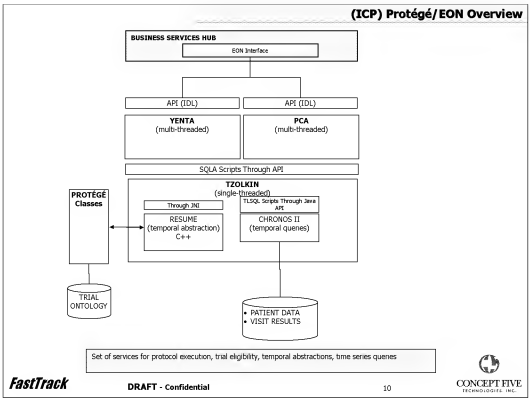
Site 1
Site N
Sponsor 1
SPONSOR 1
Sponsor Executive
Sponsor 1 Session
Dashboard
TRIAL 1
Trial Session
Trial Executive
User Session 1
Use Case
User Session N
Use Case
Business Objects
FASTTRACK Enterprise Services
HL7 Interface
Analytics Interface
EON Interface
SPONSOR N
Sponsor Executive
Sponsor N Session
Dashboard
Sponsor N
Site M
Site V
TRIALn
Trial Session
Trial Executive
User Session 1
Use Case
User Session N
Use Case
Business Objects
TRIALS BUSINESS OBJECT MODEL
Process Templates (Use Cases)
Business Object Model Templates(EOM)
FastTrack
DRAFT - Confidential
9
CONCEPT FIVE
TECHNOLOGIES INC.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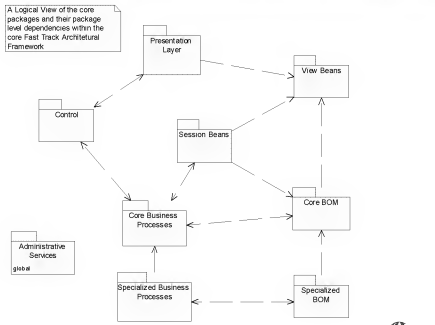
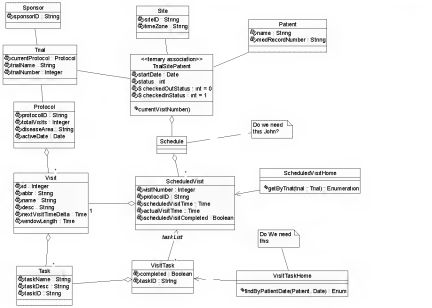
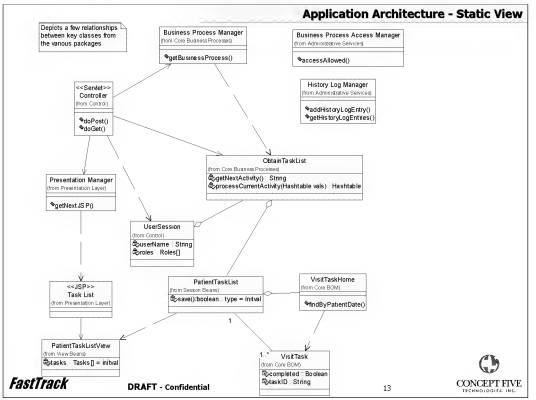
Set of services for protocol execution, trial eligibility, temporal abstractions, time series queries
FastTrack
DRAFT - Confidential
10
CONCEPT FIVE
TECHNOLOGIES, INC.

Application Architecture - Logical Package View



Application Architecture - Preliminary BOM

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Presentation Manager
(from Presentation Layer)
getNextJSP()
UserSession
(from Control)
userName : String
roles : Roles[]
<<JSP>>
Task List
(from Presentation Layer)
PatientTaskList
(from Session Beans)
save():boolean type = initval
VisitTaskHome
(from Core BOM)
findByPatientDate()
1
PatientTaskListView
(from View Beans)
tasks : Tasks[] = initval
1..*
VisitTask
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completed : Boolean
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FastTrack
DRAFT - Confidential
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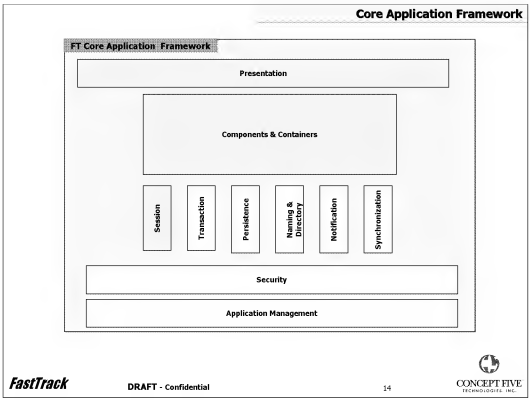
CONCEPT FIVE
TECHNOLOGIES, INC.



The Core Application Framework provides a common, open standards-based architectural framework on which FastTrack applications are built. These applications include the Trials Network and the Intelligent Hub today. This Core Application Framework is built on adopted industry standard APIs and presents an integrated higher level interface on which FastTrack business solutions are developed.

The FastTrack Core Application Framework is based on the Java 2 Platform, Enterprise Edition (J2EE) and CORBA 2.0. Using products that support these standards is allowing FastTrack to base its applications on a scalable component architecture.

The FastTrack Application Framework offers the following features for its applications:

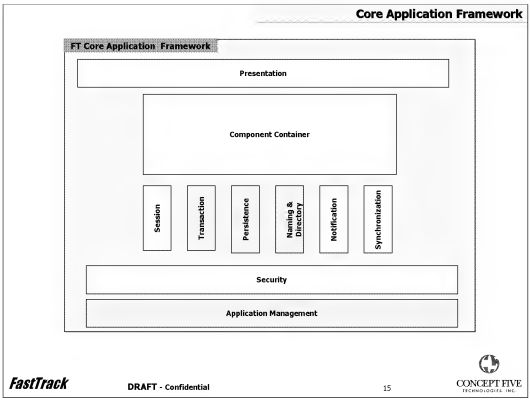
Presentation Management

The Presentation Management Framework offers services for Web Server API support, and Web page generation and caching. These services are based on Java Server Pages (JSP) in the J2EE specification. The JSP templates in the FastTrack framework provide presentation and UI features and integrate with the business components to deliver the look-and-feel to FastTrack trial service pages as well as Personal Digital Assistants (PDAs). More complex UI functionality in FastTrack applications is built using Java Application frameworks that are part of the Presentation Management Framework.

Components and Containers

FastTrack is using the Enterprise Java Bean component standard as the underlying mechanisms for its component framework. EJB containers in this framework provide a run-time environment for the beans. EJB servers provide a run-time environment for the containers in this framework. The FastTrack framework defines the types of containers, session beans, and entity beans that compose its applications' architectural foundations. The component framework also offers integration with the Presentation Management framework, allowing FastTrack JSPs and Java Applications to use the business service components.

FastTrack application sessions represent business processes in its Application Framework. These business processes are implemented using a collection of EJB stateful and stateless session beans.



The FastTrack Application Framework offers the following features for its applications (cont.):

Transaction Management

The Transaction Management framework is built on the Java Transaction API (JTA) which uses the Java Transaction Service (JTS). This framework provides a simple programming model for transactions within the context of Object Transaction Services (OTS). It also offers object level integrity and caching, transparent thread-safety based on transactional context, business object integration with OTS and XA resource managers.

Persistence

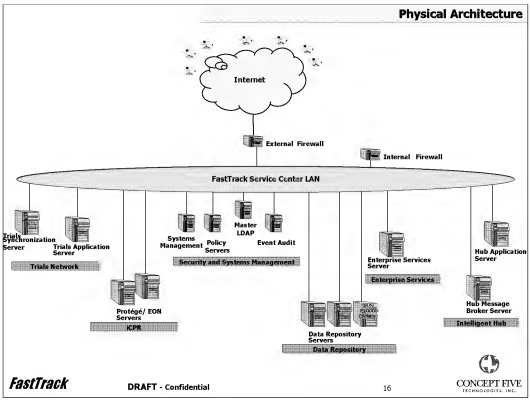
Based on the EJB persistence model, FastTrack's persistence framework uses JDBC for its database operations. This model allows FastTrack's application framework to offer connection management and pooling, transparency from application programmers within the context of OTS transactions, transactional redundant updates, and an integration point between business components and persistence.

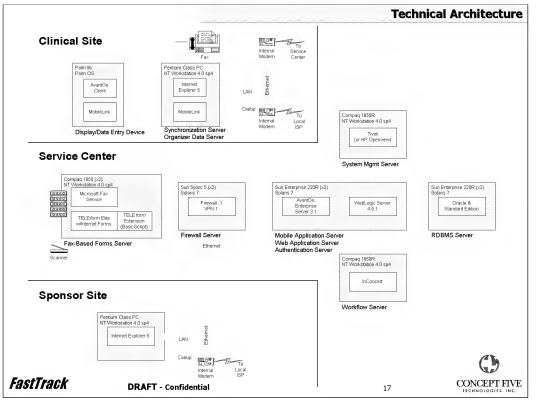
Naming & Directory

FastTrack uses the Java Naming and Directory Interface (JNDI) to look up distributed components across its applications. While JNDI offers FastTrack components a uniform way to access directory services, the FastTrack directory services are based on LDAP servers.

Application Management

FastTrack's Application Framework depends on its underlying Application Server - BEA's WebLogic Enterprise - to offer application management services. These services include dynamic load balancing of server clusters, automatic server failover, transparent instrumentation of business components (handled by Java Management Extension API), state/session management and recovery, data caching, and integration with commercial network management protocols.


Physical Architecture
Internet
External Firewall
Internal Firewall
FastTrack Service Center LAN
Trials Synchronization Server
Trials Application Server
Trials Network
Systems Management
Policy Servers
Master LDAP
Event Audit
Security and Systems Management
Protégé/ EON Servers
ICPS
Data Repository Servers
Data Repository
Enterprise Services Server
Enterprise Services
Hub Application Server
Hub Message Broker Server
Intelligent Hub
FastTrack
DRAFT - Confidential
16
CONCEPT FIVE
TECHNOLOGIES, INC.



This technical architecture supports the FastTrack Trials network and the participating sponsors, sites, and FastTrack Service Center employees.

Deployment Characteristics

- 24x7 Availability.
- Must be scalable and fault tolerant.
- Software is deployed from the Source Repository via Symantec Enterprise.
- Database Schema are deployed from ER/WIN.
- Database content (such as new form templates) is deployed via Oracle's database synchronization process.

Hardware/ OS

Service Center

- 4 500 MHz Compaq 1850R's w/1 GB RAM
- 2 Sun Ultra 2s w/256 MB RAM
- 4 Sun Enterprise 220R's w/1 GB RAM
- 2 Cisco Systems Local Directors

Clinical Sites

- 1 or more NT desktops
- 1 or more Palm IIIx PDAs

Sponsor Sites

- 1 or more NT Workstations

Applications

Service Center

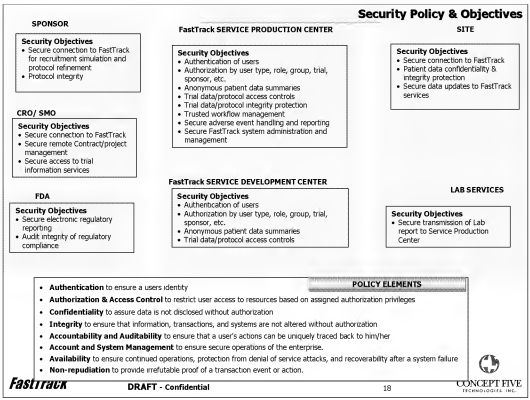
- AvantGo Enterprise Server
- WebLogic Application Server
- Oracle Standard
- Microsoft BackOffice (for Fax Service post R1.5)
- TELE*forms* Forms Server (post R1.5)
- System Management Server
- Workflow Server
- Firewall

Clinical Sites

- AvantGo Client on each PDA and desktop
- MobileLink on each PDA and desktop
- Web Browser on each desktop
- Palm Emulator on each desktop

Sponsor Sites

- Web Browser



Authentication - Verification of the identity of a user, device, or other entity in a computer system during the login attempt. The login process will use encrypted Userid, password and a one-time-password for the accessing Fasttrack system. All login attempts, successful or failed, are logged for future audits. All logins including internal and external are required to authenticated through a Authentication Server

Access Control - The security mechanism that prevents the unauthorized access from external computer systems. Every external system accessing Fasttrack via the Internet will have an assigned IP address. The security mechanism will only allow access from approved IP addresses.

A firewall is the type of security mechanism that controls access from external systems.

Integrity - System integrity is a quality that a system has when it performs its intended function in an unimpaired manner, free from deliberate or inadvertent unauthorized manipulation.

Database integrity is maintained by using transaction logs, database replication and audit trails. The Database will be backed on a regular schedule with tapes rotating offsite weekly and onsite tapes stored in fire proof safe.

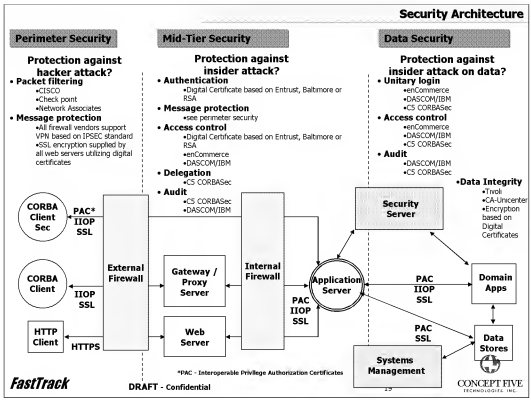
Database modifications will be verified after update procedure is completed with incorrect data rolled back immediately. The transaction log will be used roll back updates if failure is detected.

Privacy - Privacy of the data is of extreme importance. The privacy of the data and of any patient data will be ensured by using encryption from the Clinical sites to the database at Fasttrack. The data stored in the database is encrypted and password protected.

The database administrator will only directly access the database. All other users and application will use defined queries and views which will limit access to the data.

Accountability (Logging and Auditing) - The ability to trace a user's actions back to a transaction enabling a user to be held responsible for his/her actions. All activity from user logins to computer access will be logged for future auditing. All database modifications will be logged in a transaction log for auditing and data restores.

Account and System Management - System management server will be used to monitor all components of the Fasttrack system. One or more administrators will be chosen to manage and monitor the Fasttrack system.


Security Architecture
Perimeter Security
Mid-Tier Security
Data Security
Protection against hacker attack?
• Packet filtering
•CISCO
•Check point
•Network Associates
• Message protection
•All firewall vendors support VPN based on IPSEC standard
•SSL encryption supplied by all web servers utilizing digital certificates
Protection against insider attack?
• Authentication
•Digital Certificate based on Entrust, Baltmore or RSA
• Message protection
•one perimeter security
• Access control
•Digital Certificate based on Entrust, Baltmore or RSA
•enCommerce
•DASCOM/IBM
• Delegation
•CS CORBASec
• Audit
•CS CORBASec
•DASCOM/IBM
Protection against insider attack on data?
• Unitary login
•enCommerce
•DASCOM/IBM
•CS CORBASec
• Access control
•enCommerce
•DASCOM/IBM
•CS CORBASec
• Audit
•DASCOM/IBM
•CS CORBASec
•Data Integrity
•Tivoli
•CA-Unicenter
•Encryption based on Digital Certificates
CORBA Client Sec
PAC* IIOP SSL
CORBA Client
IIOP SSL
HTTP Client
HTTPS
External Firewall
Gateway / Proxy Server
Web Server
Internal Firewall
Application Server
PAC IIOP SSL
Security Server
PAC IIOP SSL
Domain Apps
PAC SSL
Data Stores
Systems Management
*PAC - Interoperable Privilege Authorization Certificates
FastTrack
DRAFT - Confidential
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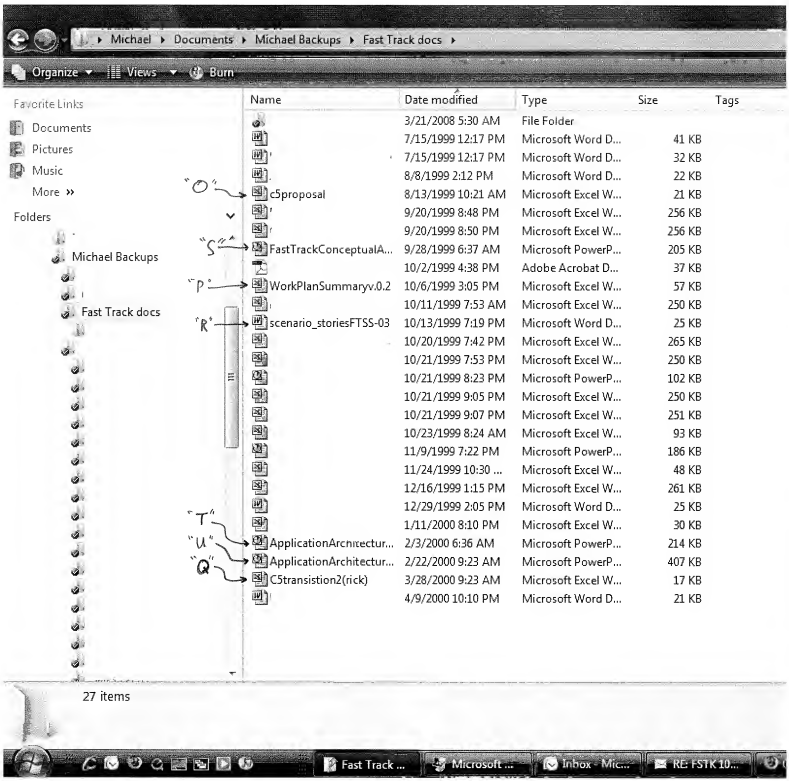
CONCEPT FIVE TECHNOLOGIES, INC.

EXHIBIT V TO SECOND DECLARATION OF INVENTOR MICHAEL MISCHKE-REEDS UNDER 37 C.F.R. §1.131(b)

SCREEN SHOT SHOWING LAST-MODIFIED DATES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Organize
Views
Burn
Favorite Links
Documents
Pictures
Music
More »
Folders
Michael Backups
Fast Track docs
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Date modified
Type
Size
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Fast Track ...
Microsoft ...
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